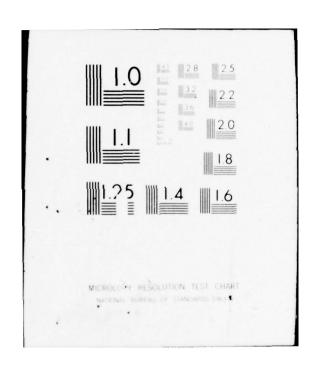
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1 DECEMBER 1975

NAVSEA OCEAN ENVIRONMENTAL ACOUSTIC DATA BANK

-NAVDAB-

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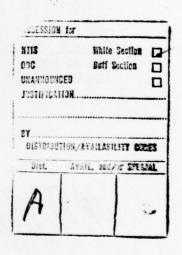
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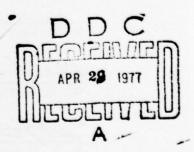
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VOLUME 3

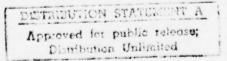




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ADMINISTRATIVE STATEMENT

The NAVSEA Ocean Environmental Acoustic Data Bank (NAVDAB) is a joint effort of the Naval Undersea Center (NUC), the Naval Underwater Systems Center (NUSC), the Naval Research Laboratory (NRL), and the Naval Oceanographic Office (NAVOCEANO), under the sponsorship of the Sonar Technology Office of the Naval Sea Systems Command (Task Area SF 52 552 601). Each of these organizations is represented in the NAVDAB Steering Group. The Steering Group has the responsibility for development of the data bank, which has been installed at NUC/San Diego, California, NUSC/New London, Connecticut, and NAVOCEANO/ Washington, D.C.

The NAVDAB Steering Group is grateful to G. F. Anderson of Computer Sciences Corporation and G. E. Miller of Arthur D. Little, Inc., for their assistance on this project.

Released by: NAVDAB Chairman Sponsoring Authority:

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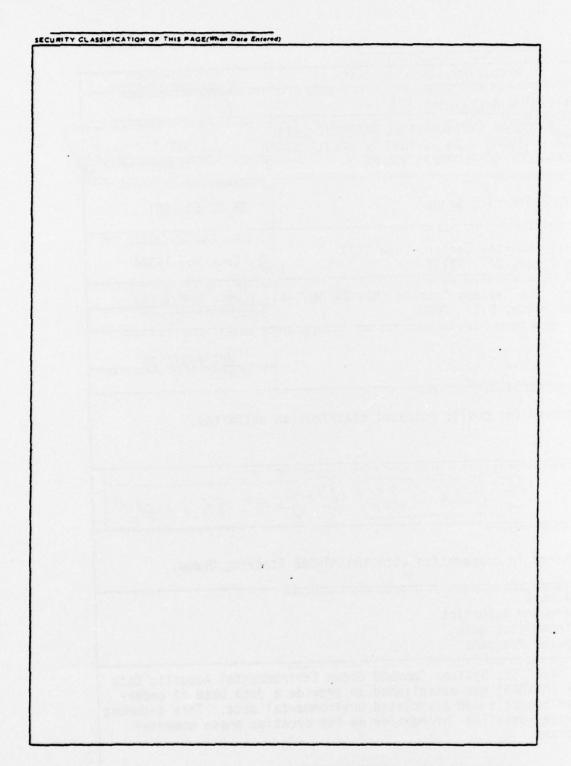
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DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362

FOREWORD

The Naval Sea Systems Command Ocean Environmental Acoustic Data Bank (NAVDAB) was established to provide a data base for the development and validation of environmental acoustic models for mobile sonar application. NAVDAB is unique in that it is primarily for environmental and acoustic data taken concurrently and it is the only data bank of this type operated for mobile sonar application.

A set of five reports have been prepared to describe how NAVDAB works and how to use it. This is volume 3 of the set. The individual reports cover the following topics:

Volume 1 User's Guide to Retrieval

Volume 2 Input Format Guide

Volume 3 Details of Creation Phase

Volume 4 Details of Retrieval Phase

Volume 5 Details of Miscellaneous Support Programs

Governmental and industrial activities desiring to submit or retrieve environmental acoustic data should contact:

Naval Undersea Center Code 3073 San Diego, CA - 92132

Naval Underwater Systems Center Code TALA New London Laboratory New London, CT - 06320

Naval Oceanographic Office Code 3440 Washington, D.C. - 20373

Copies of the five reports can be obtained through the Defense Documentation Center, Defense Supply Agency, Cameron Station, Alexandria, VA - 22314.

C.D. Smith, Director Sonar Technology Office, 06H1/036

CONTENTS

Section		Page
1.0	INTRODUCTION	1-1
2.0	DESCRIPTION OF THE DATA BASE	2-1
3.0	DESCRIPTION OF THE DATA ENTRY PROCESS	3-1

Appendices		
A.	Computer Program Listings	A-1
в.	Current NAVDAB Steering Group	B-1
	LIST OF ILLUSTRATIONS	
Figure		
2-1	NAVDAB Data Base Structure	2-2
3-1)	Approximate the second	(3-2
3-1) 3-2	Flowcharts for Data Entry Phase	3-3
3-3)		3-4
A-1	Data Entry Program Cross-Reference Map	A-4

SECTION 1.0

INTRODUCTION

The Naval Sea Systems Command (NAVSEA) Ocean Environmental Acoustic Data Bank (NAVDAB) was established to provide a data base for the development and validation of environmental acoustic models for mobile sonar applications. The purpose of this document is to provide details of the computer programs which generate the NAVDAB data base.

This is Volume 3 of the five-volume set covering the NAVDAB computer program documentation. The individual volumes cover the following topics:

Volume 1. User's Guide to Retrieval

Volume 2. Input Format Guide

Volume 3. Details of Creation Phase

Volume 4. Details of Retrieval Phase

Volume 5. Details of Miscellaneous Support Programs

Copies of these documents may be obtained from the Defense Documentation Center.

SECTION 2.0

DESCRIPTION OF THE DATA BASE

Many factors affect the design of a data base and retrieval system. In the case of NAVDAB a large number and variety of data parameters were considered. To meet this requirement an open-ended tabular format, with variable record length, was selected to accommodate the initial sets of parameters and data and allow for expansion.

Another primary consideration in the data base design was the need for rapid access to all elements of all data. The data base must be suited to a versatile, efficient, random-access, retrieval system. Random-access retrieval techniques dictate, to a great extent, how data are structured on a storage device.

Other requirements of the NAVDAB system include: safeguard of classified information; allowance for operation in either batch or time-sharing mode; ease of updating and maintenance; and use of a universally-accepted computer language, as well as sufficient modularity, for ready adaptation to the different types of computers on which the system may be implemented.

In view of all these considerations, the data organization shown in Figure 2-1 was developed. It is a multilevel, hierarchically-organized, partially circular, linked-list structure, with large-capacity disk for primary storage. Four levels are involved:

- 1. EXPERIMENT The highest level, pertains to the overall program of measurements such as AMOS, FASOR I (Forward Area Sonar Research)
- CRUISE The second level is applicable to natural subsets of an EXPERIMENT, such as individual AMOS cruises or measurements taken within a specified area

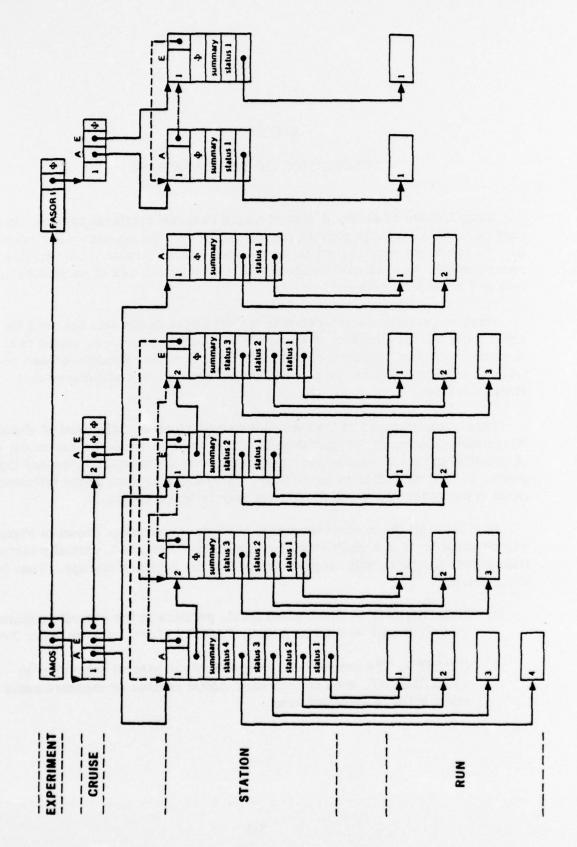


Figure 2-1. NAVDAB Data Base Structure.

- 3. STATION A subdivision of a CRUISE: refers to measurements at or about a specific geographical location, such as FASOR II, Cruise 1, Station 1
- 4. RUN The fourth and lowest level: designates a discrete set of measurements forming an element of a STATION, such as a propagation loss run or a hydrographic cast

Actual numerical data are stored only at the RUN level, which contains no other information. Key catalog information about the various Runs of a Station are stored at the STATION level, which contains, for all the Runs, chronological and geographical data and access category, and lists the acoustic and environmental parameters. The organization of the data is described for each Run, including the Run's storage location on the disk. Locations of associated Stations are also included. There are two types of Stations, acoustic and environmental, but the only environmental data currently approved by the Steering Group are those supporting accepted acoustic data.

Catalog information for the Stations of a Cruise is stored at the CRUISE level, which also contains storage locations of the first acoustic and environmental Stations and the next Cruise of the Experiment. In addition, there is an alphanumeric description of the features of the particular Cruise. These notes may be printed out in the retrieval process as background information.

The EXPERIMENT level contains summary information for the Experiment and directs flow down through the other levels. This flexible pointer structure allows additions or deletions of data without changing the programs that access the data.

SECTION 3.0

DESCRIPTION OF THE DATA ENTRY PROCESS

The program INITO is used to initialize the NAVDAB data base. The actual generation of the data base is accomplished by program MAIN. After examining the data base to determine the current status of its contents, MAIN begins reading card images which were prepared according to established NAVDAB input formats. (See Volume 2 of this documentation series.)

As each new Experiment, Cruise, or Station is read in, links (pointers) are established to associate it on the data base with the previous Experiment, Cruise, or Station. The schemes for processing constants, parameters, and variables are the same for environmental input card images as for acoustic card images. Numerous error checks are made as the data are processed.

Flowcharts for the data entry process are shown in Figure 3-1 through 3-3. Complete computer program listings are contained in Appendix A.

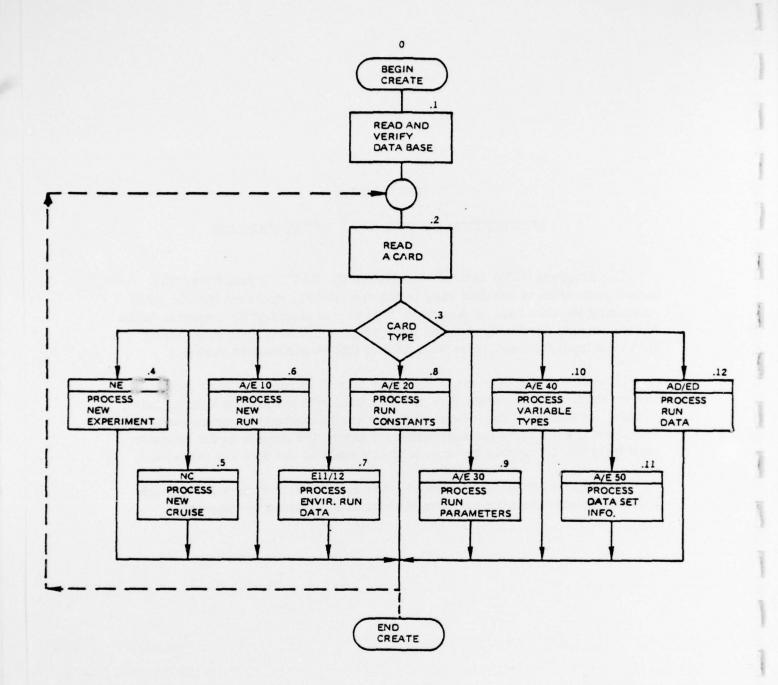


Figure 3-1.

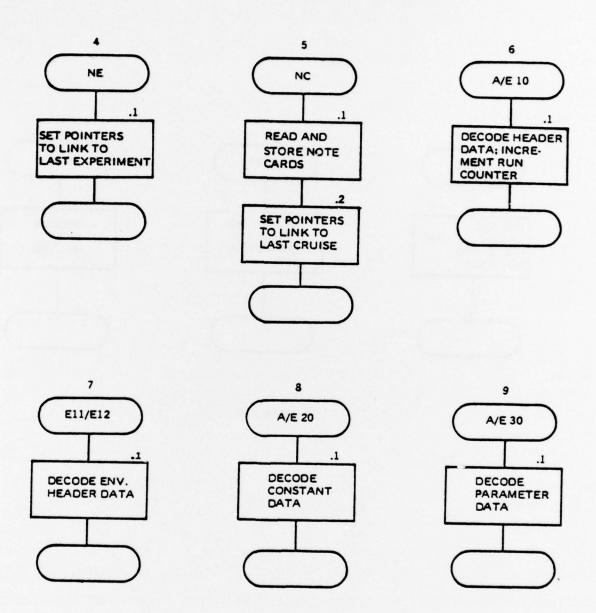


Figure 3-2.

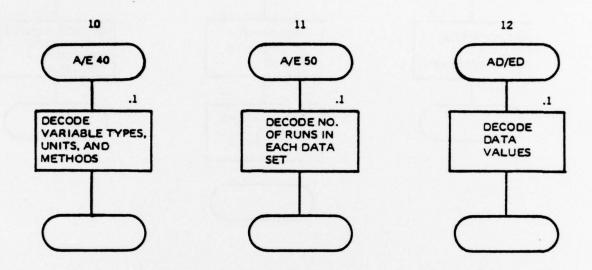


Figure 3-3.

APPENDIX A

COMPUTER PROGRAM LISTINGS

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SPFEDS A-48	FOR SYNB 2	4 JUN 74	21:22:11	79	13	s	- 0	3127
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UNPKIP A-104	ELT SYMB 1	16 DEC 75	51:60:91	9.7	1	•	- 0	3202
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DATA ENTRY PROGRAM ELEMENT TABLE AND INDEX TO LISTINGS (CONTINUED)

CALLED ROUTINES

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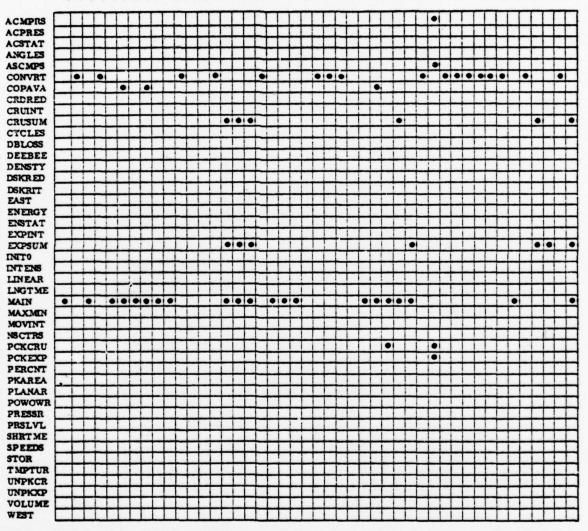
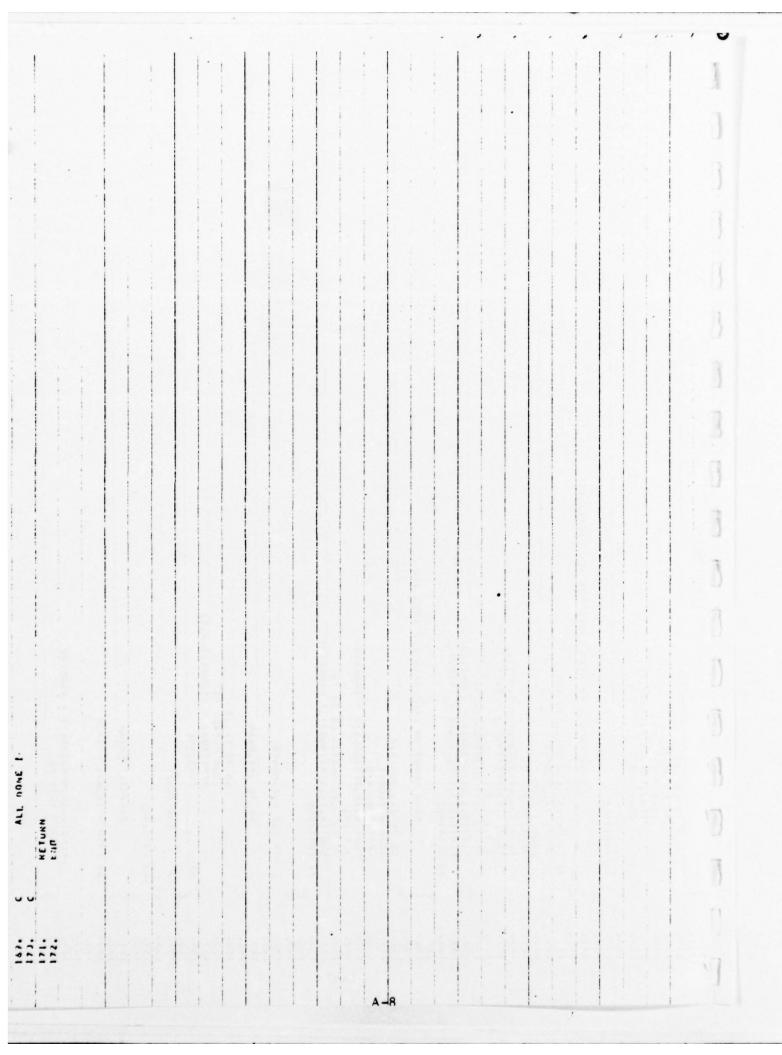


Figure A-1. Data Entry Program Cross-Reference Map.



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10.0 C (VELOCITY: TABLE. 10.1 C (ALL SPEEDSIVALUE, UNICOE 10.2 C (ALL IMPTURIYALUE, UNICOE 10.3 C (AMGLE' TABLE. 10.4 C (ALL PERCHTURE, UNICOE 10.5 C (AMGLE' TABLE. 10.6 C (AMGLE' TABLE. 10.7 C (ALL PERCHTUALUE, UNICOE 10.6 C (AMGLE' TABLE. 10.7 C (ALL PERCHTUALUE, UNICOE 10.7 C (ALL PERCHTUALUE, UNICOE 10.8 C (AMGLE' TABLE. 10.9 C (ALL PERCHTUALUE, UNICOE 10.9 C (ALL PERSSURE' TABLE. 10.9 C (AMGLE' TABLE. 10.7 C (AMGLE' TABLE. 10.7 C (AMGLE' TABLE. 10.8 C (AMGLE' TABLE. 10.9 C (AMG	79.	S CALL LNGTHE (VALUE, UNICOE RETURN
# # # # # # # # # # # # # # # # # # #	-	
95. C TEMPERATURE TABLE. 90. C TALL IMPTURIVALUE, UNICOE 90. C ANGLE TABLE. 91. C ANGLE TABLE. 91. C ANGLE TABLE. 92. C ANGLE TABLE. 94. C TEMPERATURE UNICOE 94. C ANGLE TABLE. 95. C ANGLE TABLE. 95. C TEMPERATURE UNICOE 100. C TEMPERATURE UNICOE 100. C TEMPERATURE UNICOE 100. C ACOUSTIC PRESSURE TABLE. 100. C ACOUSTIC PRESSURE TABLE. 100. C ACOUSTIC PRESSURE TABLE. 100. C TEMPERATURE UNICOE 100. C TEMPERATURE TABLE. 110. C TEMPERATURE TABLE. 110. C TEMPERATURE TABLE.	:::	6 CALL SPEEDSIVALUE, UNICOE RETURN
99. C . ANGLE . TABLE. 91. C . ANGLE . TABLE. 93. C . ANGLE . TABLE. 94. C . ANGLE STYALUE.UNICDE . PER CENT. TABLE. 95. C . PER CENT. TABLE. 99. C . PER CENT. TABLE. 99. C . PRESSURE. TABLE. 100. C . PRESSURE. TABLE. 100. C . ACOUSTIC PRESSURE. TABLE. 103. C . ACOUSTIC PRESSURE. TABLE. 104. C . ACOUSTIC PRESSURE. TABLE. 105. C . ACOUSTIC PRESSURE. TABLE. 106. C . ACOUSTIC PRESSURE. TABLE. 107. C . TABLE. 110. C . TABLE.	S S	
C 'ANGLE' TABLE. G CALL ANGLESIVALUE.UNICDE C 'PER CENT! TABLE. C 'ANGLE PERCENTY ALUE.UNICDE RETURN C 'ACOUSTIC PRESSURE! TABLE. C 'ATTREQUENCY' TABLE.		7 CALL THPTURIVALUE, UNICOE RETURN
RETURN C 'PEK CENT' TABLE. C 'PEK CENT' TABLE. C 'PRESSURE' TABLE. C 'PRESSURE' TABLE. C 'PRESSURE' TABLE. C 'PRESSURE' TABLE. C 'ACOUSTIC PRESSURE' TABLE C 'ACOUSTIC PRESSURE' TABLE C 'ACOUSTIC PRESSURE' TABLE C 'THEQUENCY' TABLE.	90.	
C 'PER CENT: TABLE. C 'RETURN C 'PRESSURE' TABLE. C 'PRESSURE' TABLE. C 'ACOUSTIC PRESSURE: TABLE. C 'ACOUSTIC PRESSURE: TABL	93.	8 CALL ANGLESIVALUE, UNICDE
RETURN C 'PRESSURE' TABLE. C 'PRESSURE' TABLE. C 'ACOUSTIC PRESSURE' TABL C 'ACOUSTIC PRESSURE' TABL C 'ACOUSTIC PRESSURE' TABL C 'THEQUENCY' TABLE.	96.	
C 'PRESSURE' TABLE. C ID CALL PRESSRIVALUE, UNICOE RETURN C 'ACOUSTIC PRESSURE! TABL C II CALL ACPRESSIVALUE, UNICOE RETURN C 'THEQUENCY' TABLE.		9 CALL PERCHT (VALUE, DNICHE RETURN
C 'ACOUSTIC PRESSURE: TABLE C 'ACOUSTIC PRESSURE: TABLE C 'FEEQUENCY' TABLE	300	
C 'ACOUSTIC PRESSURE! TABLE C II CALL ACPRESIVALUE, UNICOE RETUKN C 'FREQUENCY' TABLE.	0 0	JO CALL PRESSRIVALUE,UNICDE
11 CALL ACPRESIVALUE, UNICOE RETURN C ************************************		'ACOUSTIC PRESSURE' TABL
50		11 CALL ACPRESIVALUE, UNICOE RETUKN

(COMPANY)

FETURN 'ENERGY' TABLE. 13 CALL ENERGY (VALUE, UNICOE, UNITS) RETURN 'INTENSITY' TABLE. 14 CALL PASLYLIVALUE, UNICOE, UNITS) RETURN 'DENSITY' TABLE. 16 CALL DESELETVALUE, UNICOE, UNITS) RETURN 'DENSITY' TABLE. 19 CALL DESELETVALUE, UNICOE, UNITS) RETURN 'DENSITY' TABLE. 10 CALL DESELETVALUE, UNICOE, UNITS) RETURN 'DENSITY' ERRORVARIABLE NAME CI END END END END END END END EN

2. C 9. C 10. C 10. C 11.	DATA IS READ AND STORED INTO THE APPROPRIATE SPOTS IN CURRON CPV. INCOMINGATION TO AND STORED INTO THE APPROPRIATE SPOTS IN CURRON TO AND STANDARD STORED TO AND	
2	25255	
2	R (A-Z	
2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	R (A-2) NGON, CON14, 30), NPAR, PARI 30, 30), NVAR, 1VARI 3, 30), NDATS, NROWS (SO), NDATA, VALKNG (2, 30, 50), DATA (3, 000) 1, 30), 1PAR (30, 30), 1VLRNG (2, 30, 50) 19 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NCON.CONIA,30), NPAR.PARI30,301, NVAR.1VAR(3,301, NDATS.NROUSSEQ1.NDATA; VALRAGIZ,30.501, DATA(3,000) 1,301,1PAR(30,301,1VLRAGIZ,30,501) NIL111,1CONI1,111,1111 INALARAGI INITALARAGI NIL41,FIELD(2),UNITS(4) ','''''''''''''''''''''''''''''''''''	
2 2 2 2 2 3 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
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24. 24. 26. 27. 28. 28. 28. 28. 28. 29. 29. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	1 1
25. 26. 27. 28. 28. 28. 29. 29. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20		
26. DATA 82/. 60 27. DATA FIELD(12) 28. DATA FIELD(12) 29. C		
24. C DATA FIELD(12) 27. C DATA FIELD(12) 30. C DATA FIELD(12) 31. C DATA FIELD(12) 31. C DATA FIELD(12) 32. C DATA FIELD(12) 34. C DATA FIELD(12) 35. C DATA FIELD(12)		1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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39. C IF (SEQ .NE. '20') GO TO	10.1 60 T0 30	
	ISTANTS	
43. C DECODE NO. OF	NO. OF CONSTANTS	
DECODE	IIII MOON	
	ERROR IN NCON	1
		,
MRITE (6.17)	0) 60 T0 18 CAHOINIII.1=1,141 H NCON -LE. U',/IX,13A6,A21	
53, STOP		-

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i

54.	
53.	18 1F INCON .GT. 41 60 70 25
. 60.	(21,CARDIN) (ICONI
61.	21 FORHAT (717,13,727,13,720,F7.0,730,213,736,F7.0,
	178,131
	60 10 24
: :	
.1.	25 OECODE 121.CANDIN) ((COMII.J).I=1.4).
69.	READ (9.21) ((CON(1, J), I=1,4), J=5, NCON) 24 CALL CRORED (CARDIA, SEG. CROTYP)
.53	
72.	C CHECK FOR PARAMETERS
::	30 15 6
15.	
77.	CPROCESS PARABLERS
	C INCREMENT NO. OF PARAMETERS COUNTER
	NPAR - NPAR +1
81. 82.	C DECODE NAME, UNIT, PROCESS & NO. OF VALUES
	DECODE (32.CARDIN) (PARILINPARILIPI,4)
. 9	
98.	NVAL - IPARII, NPARI
92.	C NO. DO THIS CARD
93.	
95.	
97.	
98	
100.	SEND (9,13) (PARIL, NPARIL, 10)
101.	DAAD TERM OFFI
103.	
	J CALL CARDINISTY CKDTTP)
. 00	C CONTINUE TO PROCESS ALL PARAMETERS
107.	. 60 10 30
.601	

159. STOP 160. CPROCESS DATA SETS CARDIS) 161. CPROCESS DATA SETS 163. C DECODE NUMBER OF DATA SETS 164. C 55 DECUDE (20,CARDIN) NDATS 166. C
C DECUDE (20,CARDIN) NDATS
98

STOP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.69.	
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 70-	TATAL
195. C CHECK BOTH THE SAME 195. C BELLE CROOK 196. C BELLE CROOK 197. C BELLE CROOK		CONTINUE
17. C	173.	
193	174.	CHECK BOTH THE
197 C	175.	O1 05 1331100 -03. 221001 31 04
17. C MAILE CANDING TO THE CANDING T	177	
177. C DATE LAAL! MAAIS MA	178.	
10 1 1 1 1 1 1 1 1 1	179.	
1 1 1 1 1 1 1 1 1 1	.00	MARER OF DATA SETS (0
STOP	182.	OT AGREE WITH . (.THE NUMBER OF DATA SETS (".13.") COMPUTED." /
STOP	-63.	
10 10 10 10 10 10 10 10		
	185.	
19. C DECODE THIS CARD C DECODE THIS	167.	2
190 C	188.	65 IF INDATS .6T. 161 GO TO
190 C	189.	
193 C	190.	
193.		
1991 C C C C C C C C C	101	AA FORMAT TID TATA
194. C DECODE (64,CARDIN) (MRUBS(1),1=1,16) 197. C DECODE (64,CARDIN) (MRUBS(1),1=1,16) 198. C C C C C C C 198. C C C C C C C C 198. C C C C C C C 198. C C C C C C C C 198. C C C C C C 199. C C C C C C C 199. C C C C C C C 199. C C C C C C C C 199. C C C C C C C C 199. C C C C C C C C C 199. C C C C C C C C C		60 10 25
199. C 70 DECODE (44.CARDIN) (MROBS(1),1=1,14) 199. C 84.CARDIN) (MROBS(1),1=1,14) 199. C 70 DECODE (44.CARDIN) (MROBS(1),1=1,14) 200. C 75 DO 77 1=1,NGATS 200. C 84.CARDIN = MROBS(1),1=1,14) 200. C 870	195.	
199.	196.	
202. 75 DO 77 I=1,NDATS 201. 75 PO 77 I=1,NDATS 202. 76 FRITE (6,74) I.NROBS(1). 203. 76 FRITE (6,74) I.NROBS(1). 203. 76 FRITE (6,74) I.NROBS(1). 205. 77 CONTINUE 206. 77 CONTINUE 207. 6 208. 6 208. 6 209. 6 210. 6 211. 6 212. 6 213. 6 214. 6 215. 6 216. 6 217. 6 218. 6 219. 6 220. 6 221. 6 222. 6 222. 6 222. 6 223. 6 224. 6 224. 6 225. 7 225. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 227. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6 27. 6	197.	ME AD 19 441 (MRDAS 11) (MRDAS
200. C 75 DO 77 1=1,NDATS 201. 75 DO 77 1=1,NDATS 202.	. 66	-
201. 75 DO 77 1=1,NDATS 202. 1F (NRGMS!!) :GT: Q1 GO 203. 76 FORTAT (" EKNOR == NROMS!!) 205. 77 CONTINUE 206. 77 CONTINUE 207. C 210. C 210. C 211. C 212. C 213. C 214. C 215. C 216. C 216. C 217. C 217. C 218. C 219. C 220. C 221. C 221. C 221. C 222. C 222. C 222. C 223. C 224. C 224. C 224. C 225. C 227.		
203. 76 FORMAT (* ERROR NROWS 203.) 203. 76 FORMAT (* ERROR NROWS 205.) 205. 77 CONTINUE 208. C 210. C 211. C 212. C 213. C 214. C 215. C 216. C 216. C 217. COMPUTE NC. REN 217. C 218. C 219. C 219. C 219. C 220. C 221. C 221. C 221. C 222. C 222. C 222. C 223. C 224. C 224. C 224. C 225. C 227.		DO 77 1-1, NEATS
TO FORTINGE OF THE TO T	202.	IF (NRGIS(!) .GT. Q) 60 TO 77
TO COMTINUE C BO HDATA = Q C DO 100 L=1,NDATS C COMPUTE NE. REN C NOREM = NROWSIL1 • NVAR NCONT = Q C READ A CARD C READ A CARD	203.	FORMAT (" EGROR NROBS
C C PROCESS ALL DATE C DO 100 L=1, NDATS C COMPUTE NC. REM C NOREM = NROWSIL1 - NVAR HCONT = 0 C C READ A CARD C READ A CARD	205	5100
C BO 100 Lell NDATS C COMPUTE NG. REM C COMPUTE NG. REM C C COMPUTE NG. REM C C C C C C C C C C C C C C C C C C C	266.	CONTINUE
C COMPUTE D PROCESS ALL DATE C DO 100 Lei, NOATS C COMPUTE NG. REM NGONT = D C G READ A CARD C READ A CARD	207.	
C BO 100 Lelindats C DO 100 Lelindats C C COMPUTE NG. REM C C COMPUTE C REM C C C C COMPUTE C REM C C C C C C C C C C C C C C C C C C C	208.	3
C C COMPUTE NC. REM C MOREH - NROWSIL) - NVAR HCONT - 0 C G CALL MOVINTICANDIN, 21,110 C READ A CARD	209.	
C COMPUTE NC. REM C MOREH = NROMSIL1 - NVAR HCONT = D C G CALL MOVINTICANDIN,21,10	210.	1.
C COMPUTE NG. REM C COMPUTE NG. REM C HOREH " NROMSIL! . NVAR HCONT " D C G CALL MOVINTICANDIN,21,10	212.	PROCESS ALL DATA
C COMPUTE NG. REM C HOREH = NROWSIL] • NVAR C C C G SCALL MOVINTICANDIN, 21, 10	213.	
C C COMPUTE NG. REN C NOREM = NROMSIL1 • NVAR C C C G CALL MOVINTICANDIN, 21,110	214.	001 00
C C CALL MOVINTICANDIN, 21,10	215.	a de
30 00	217.	
\$ 0 0	218.	NOREM
30 00	219.	HCONT
ร	220.	3
3	222	3
J	223.	0
The second secon	224.	C READ A CARD

228.	3
	0 - 0001
.05	
231.	
232.	to the property of the same of
233.	IF (NOREM .LT. &) NOL . NOREM
234.	C CHARACTERS
236.	
137.	90 CALL MOVCHRIFIELDII)
238.	
.40.	NONC = NONC +1
	- NCONT .
242.	107. IF 1E
243.	• 60 10 95
245.	1919 1410
46.	S S S S S S S S S S S S S S S S S S S
247.	WRITE (6.92) NONC, [CARDIN
248.	92 FORMAT (//. ERROR - BLANK DATA FIELD (*.11) ENCOUNTERED."./,
249.	
250.	\$10k
252.	C CHECK FOR 'NULL' DATA FIELD
.53.	
255.	95 NDATA - NDATA +1 DATAINDATA! - NULL
56.	C IF (FIFIDAL) .EG. MI .AND. FIFLU(2) .EG. B21 GO TO 98
258.	
259	C DECODE NUMERIC VALUE
	DECODE
262.	97 FORMAT (FIG.0)
2632)
265.	,,,
. 99	LL . MODINCONT, MVAR!
. 19	ILL .EG. U) LL . NYAR
	CALL CONURT (DATAINDATA) . IVARII. LL) . IVARIZ. LL) . UNITS)
269.	1F (UNITS(1) . Eg. UNITS
	4
272.	
73.	
274.	C CHECK FOR END OF CARD
76.	98 IF (HONC , NE . HOLT 60 TO 90
277.	The state of the s
178.	NOREM = NOREM - NOI
280.	and
281.	C CHECK FOR END OF DATA SET

	284.)
10 10 10 10 10 10 10 10	286.	100 CONTINUE
04	288.	IF INCOM Sec. C1 CO TO 115
10 CONVETT CONTENT	290.	00 110 1=1,NCON
10	291.	CALL CONVRT (CONTS, 11, CONTS, 11, UNITS)
11 12 12 12 13 14 15 15 15 15 15 15 15	293.	FORMATIC CONSTANTS 215
10 10 10 10 10 10 10 10	294.	JONITHOS
115 IF INPAR . EQ. 3 1 60 TO DO 130 1=1.NPAR CAL CONVRT (PAR(1) 1) 117 FORBATI : PARAH : F21.7,2 C 150 RETURN C END C END	295.	
	297.	115 IF INPAR .Eq. 3 1 60 TO
	298.	DO 130 1-1.NFAR
DD 120 Jai, K CALL CUNNET (PAR(1)	244.	
	301.	
I F (UNITS (1) - Eq. * UNITS * 1) I PAR(2) 1 I PAR(3) 1 I PAR(3) 1 I PAR(3) 1 I PAR(4) I	302.	CALL CONVRT (PARITY-J. 1) - 1 PARIZ (1) 1 PARIZ)
117 FORMATION FEBRANOS FEBRANO	303.	
120 CONTINUE C 130 CONTINUE C ALL DONE C END	305	117 FORMATI - PARAM F21-7.2151
END CONTINUE 150 RETURN C END C END	306.	120 CONTINUE
END SONTINUE C END C END	307.	
END ALL DONE C END	300	
O O O	310.	150 RETURN
	311.	
	313.	ALL
	314.	
	-	
	-	

1, 6	SUBROUTINE CHORED (CARDINISEG,CROTYP)
	CHORED ICARD READS BG COLUMNS OF THE NEXT CAND AND PUTS IT IN CARDIN. IT ALSO STORES COL 16.2 IN CHOTYP 6. 26.3
	IN SER.
	DIMENSION CARDINELL
•••	111111111111111111111111111111111111111
	10 FORMAT (13A4.A2)
	-
1	FLD(Q1)2.CROTYP) = FLD(G1)2.CANDIN(1))
	ENO

-	SUBROUTINE CHUINT
2.	
;	
;	CRUISE EVERY TINE
.5	
:	
7.	IMPLICIT INTEGER (A-2)
	3
13.	COMMON /CRUISE/CRUNO.PMXTC.CAILAT.CAILON.CAIDAT.CAFLAT.CAFLON.
:	. CAFDAT, CE LLAT, CE LLON, CE 10 AT, CEFLON, CEF DAT,
12.	. CASTATIZT, CESTATIZT, PACS, PENS, NCAROS, NOTES 114, 1521,
13.	• CAFLG
15.	•
. 9 .	
17.	PNATC = 0
. 9 -	
.61	CAILON179603
20.	•
.11	•
22.	CAFLON = 179600
23.	CAFDAT . 0
24.	
.52	•
26.	CE110N17960
27.	•
28.	CEFLAT # 90000
29.	
30.	CEFDAT = 0
31.	3
32.	
33.	RETURN
14.	END

	SUBROUTINE CRUSUM (BFRI, BFRZ)
	IMPLICIT INTEGER 14-2)
7. 6	COMMON CALLES CALLAY CALLON CAROAT CASTAT CASTAT CASTAT
•	COMMON VENCINELIANTO TO TOTAL AT CET ON COMPON AT COMMON CETON.
3:	
14.	
	COMMON /ASTAIN/SANKON,SAILAISAILON,SAIDAISAFLON. SAFDAT,SASTATISI,PNXTAS,PENVS,SAIFLG
20. 02.	COMMON /SECTO / 1017), 1DATE, NXTSEC, LSTADR, LEXP, NOCRU, NOSTA,
24. 6	
	FLD(18,18,18,SECADR) - FLD(0,18,LSTADC) FLD(18,18,HSEC) - FLD(16,16,16,157AOC)
	CALL DSKAED (SECADP, MSEC. BFR!)
	UNPACK IT
	CALL UNPKCR (BFR!)
	1
38.	FLD(18,18,HSECI) = FLD(18,18,LSTADA)
	CALL DSKRED (SECADI, MSECI, BFR2)
41,	II AD TONI
43.	
	CALL ASUNPK (BFR2,TYPE)
45.	IF ICALLAY OF CALLAT SALLAY
47.	(SAFLAT .6T. CAILAT) CAILAT
48.	ISAILAT .LT. CAFLATI CAFLAT
.64	IF (SAFLAT .LT. CAFLAT) CAFLAT . SAFLAT
50. 6	IF (CAFLG .NE. 0) GO TU SO
52.	CALLON - EASTISATLON, SAFLON) CAFLON - LESTISATLON, SAFLON

56.	SJ CAILUN . EASTISAILON, CAFLON CAFLON CAFLON . LESTISAFLON, CAFLON .
5.50	IF (SAFDAT .LT. CALDAT) C IF (SAFDAT .GT. CAFDAT) C CASTAT(1) = OR(CASTAT(1),
\$ 5.5.5	C FLD(18,18,56CAD) - FLD(0,18,15.5ADE) FLD(18,18,MSEC) - FLD(0,18,18,18,18)
6 6 7 6	CALL DSKRED ISECADI,MSECI,BFR21
. 50.	C UNPACK IT C CALL ASUNPK (BFR2,17PE)
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IF (SALLAT .GT. CELLAT) CELLAT = SALLAT IF (SAFLAT .GT. CELLAT) CELLAT = SAFLAT IF (SAILAT .LT. CEFLAT) CEFLAT = SAFLAT C
282 - 253	CAFLG - 1 CELLON - LESTISALLON SAFLO CEFLON - LESTISALLON SAFLO GO TO 113 100 CEILON - EASTISALLON CEIL CEFLON - EASTISALLON CEIL
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CRUISE U (BFRIAN)
99.	CALL DSKRIT (SECADR, HSEC, BFRI) C DONE C RETURN END

KETUKN

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FREQUENCY TABLE.			
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UNITS(1)UNITS . UNITS(2)ERROR . PRINT 101, ICODE I FORNAT(. ERRORUNIT CUDE . 13 RETURN ERO			3
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
TISCS INT I			3
2 2 2 2 2 3 3			3
2			
		A-30	3

	Supposed the No. occurred.
-	SUBSCOLLINE URLUSSIYALUE, UNICUE, UNICE COLLISSI
	C TABLE FOR DB LUSS AND ATTENUATION CONVERSION FACTORS.
	FACTORIAN
	INTEGER ENTRY (3,8), UNITS (4), UNICDE
	C PUT UNIT CODES INTO ENTRY.
	DATA (ENTRY(1,1),1=1,8)/87,61,82,90,92,93,94,95/
	C ENTER CONVERSION FACTORS.
	DATA (FACTOR(1), = 1,8)/.8,-59.2.0.,-60.,08,59.2,60./
	C PUT IN ALPHA UNITS.
	DATA ((ENTRY(1,J),1-2,3),J-1,8)/'08//! ','YARD
.61	.08//1 KYARO 08//1 HETEN
21.	-
22.	
24.	C INITIALIZE "UNITS" TO ERROR MESSAGE IN CASE CODE NOT FOUND.
26.	UNITSELD . CHAITS .
29.	C RETRIEVAL IN STANDARD DB LOSS UNITS.
30.	
33.	
34.	C ENTER INTERNAL UNITS.
36.	UNITS(3) ** 08//1*
38.	
40.	RETRIEVAL IN STANDARD ATTENUATION UNITS.
42.	1 IF (UNICDE.NE1) GO TO 2
	C ENTER INTERNAL UNITS.
46.	
18.	UNITS(4)ER
50.	C IF CODE IS IN TABLE, PERFORM CUNVERSION. ALSO, ENTER UNITS ALPHA
51.	CODE INTO 'UNITS'.
53.	2 ICODE = IABSCUMICOE)
	0.0 1 La.

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											-	-			-				
	-																		
			-																
	-																		
			-																
						E. 1													
			-			RETURN SERVER THE CODE IS, " NOT IN DB LOSS TABLE.")													
					=	5507 1					-					-			
==					17 18L	N										-			
1080	COMPLETE.		1966		CONVE	TON .					1								
וניינו			ELSE, UNIT CODE IS NOT CONVERTIBLE.	1	NOT	=					1								
COVELL CONTRACTOR	AT THIS POINT, CONVERSION IS		07 10		CODE	3000					1								
25.5	JANOS		IS N		TINO.	- IN									-				1
			CODE	1000	RROR-	RROR.													
100E.	15 PO	NUE	LIND	1	7						-								
IF (UNICDE.GT.O) VALUE.VALUE.FACTOR(I) TF (UNICDE.LT.O) VALUE.VALUE.FACTOR(I) UNITS(I).ENTRY(2,I) UNITS(2).ENTRY(3,I)	AT TH	RETURN	ELSE.	PRINT	FORM	FORMA									1				
		1			112	2													
	, 0 0		0 0	-															
2000		3.5			20.	22.2													
									A-3	2			1		1		1		1

		SUBROUTINE DÉEBÉLLYALUE, UMIÇDE, UNITS)
DATA (ENTRY (1, 11, 1=1, 27), UP 175 C ENTER ALPHA UNITS. C IF UNITS (1) = 'DB // U''. '''ILUBA''. '''ILUBA''. '''ILUBA''. ''''ILUBA''. ''''ILUBA''. '''''''''''''''''''''''''''''''''		TABLE OF CU UNITS.
C ENTER ALPHA UNITS. C ENTER ALPHA UNITS. C ENTER ALPHA UNITS. C ENTER ALPHA UNITS. ODB.//10.1. ODB.///10.1. ODB.//// ODB.//// ODB./// ODB.// ODB./// ODB.// ODB.		INTEGER ENTRY (3, 27), UMITS (4), UNICDE
DATA (ENTRY(11,11,11=1,27) - 87,81,82,90,92,93,94,95, - ENTER ALPHA UNITS. - DATA ((ENTRY(11,J),1=2,J), - PRESSR', - PRESSR', - DATA ((ENTRY(11,J),1=2,J), - OBA/HITS. - DBA/HITS.		PUT CODES INTO .ENTRY
C ENTER ALPHA UNITS. DATA (LENTRY(1, J), 1-2, J), J-1, 27) / 10B/TW, 1, AT PRESSR', RATIO', '0B/TW', AT PRESSR', RATIO', AT PRESSR', RATION', RETURN', AT PRESSR', AT PRESSR', RATION', RATION', AT PRESSR', RATION', RATION', AT PRESSR', RATION', RATION', AT PRESSR', AT PRESSR		87,81,82,90,92,93,94,95
DATA ((ENTRY(1, J), 1=2, J), J=1, 27) (DB/YDP, 1, 0.2) ***PRESSR' 1, 2/5/H2' 1, CH3/68' 1, 10B//18' 1, CH4/68' 1, CB//18' 1, CH4/68' 1, CB//18' 1, CH4/68' 1, CB//18' 1, CH4/68' 1, CH4/68		ENTER ALPHA UNITS.
		-
		• •
	17:	- 1
		·//IEMG', SC//MZ', UB//IE', MG//MZ', · 'FRG/S', 'FC//M ', '//JE/', 'CM2-HZ',
**************************************	20.	
OBANKAT, 'ER TERR' '' OBANKE', 'TERR' '' OBANKE', 'TER '' OBANKE', 'TERE'' OBAN'I', 'TABIR', 'O' OBAN'I', 'O' O' OBAN'I', 'O' O' OBAN'I', 'O' O'	21.	1//90.1.
OBS/KYA', 'RD 'OBS/KNE', 'TER	23.	
15 10 10 10 10 10 10 10	24.	, . RD DB / KME TER
C IF UNICOE.EG.O. THEN SET C UNITS(1)OB AS . UNITS(2)MEAS C SET INDICATOR FOR CASE UN C IF RETRIEVING. UNPACK VAL C IF (UNICOE.GE.1) GO TO 1 ICODE.NALUE IF (UNICOE.RE.O.AND.ICODE. UNICOE.IABS(FLD129.7.VALUE C IF ME AREN'T RETRIEVING. C IF ME AREN'T RETRIEVING. C IF ME AREN'T RETRIEVING. C SET INDICATOR FOR CASE PA	25.	.01//80
C IF UNICOE.EG.O. THEN SET UNITS(1) = .0B AS . UNITS(2) = .HEAS C SET INDICATOR FOR CASE UN I FOR INDICATOR FOR CASE UN I FOR INDICATOR FOR CASE UN I FOR INDICATOR FOR CASE UN ONICOE. NE. O. AND. I GODE. ONICOE. NE. O. AND. I GODE. I FOR AREN'T RETRIEVING. I FOR AREN'T RETRIEVING. I FOR AREN'T RETRIEVING. C SET INDICATOR FOR CASE PA		
		UNITS(2) . HEAS
		INDICATOR FOR CASE UNPACK
		1751-0
		RETRIEVING. UNPACK VALUE AND UNIT
000		IFIUNICDE.GE.11'G0 TO 1
	41.	ICODE SECTION CONTRACTOR SECTION
000	13.	IF UNICOE . NE. 0. AND . I CODE . E. G 99449999 GOTO 5
000		UNICOE®O
		UNICDE-IABSIFLD(29,7,VALUE))
		ME AREN'T RETRIEVING.
J J		IF LICODE.EQ.O.AND.UNICDE.EQ.O. METURN
the same of the same of		SET INDICATOR CASE PACK IS BYPASSED.
57. (J	

) , , , <u>x</u>
	1151-1,15)	(··)		
	.,012,	MICOL)		
	JE NECESSANY.	29.7.UMICDE)		
	PRINT 191, 1CODE PRINT 102, UNICOE, VALUE, 1TS FORMATIC UNICOE, VALUE, 1TS UNITS(1) " 'UNITS' NETURN PACK CODE AND VALUE, 1F NE	SET UNITS, RETURN. SET UNITS, RETURN. UNITS(1) = ENTRY(3,1) UNITS(1) = ENTRY(3,1) UNITS(1) = ENTRY(3,1) UNITS(1) = ENTRY(3,1) FORMAT(* ERKORUNIT CODE**13,** END		
1 [CODE = 1 A DO 2 1 A DO 2	PRINT 1911 PRINT 1911 PRINT 102,0 UNITS(1) " UNITS(2) " RETURN PACK CODE A	# UNITS(1) UNITS(1) UNITS(1) UNITS(4) RETURN END		
	-			

	SUBROUTINE DENSTYLYALUE, UNICDE, UNITS)
	C TABLE OF DEMSITY MEASURE CONVERSION FACTORS.
	INTEGER ENTRY (3,2), UNITS (4), UNITODE
::	C FACTORS ARE DOUBLE PRECISION.
	DOUBLE PRECISION FACTOR(1)
::	C. PUT UNIT CODES INTO ENTRY.
2.5	
	PUT IN ALPHA UNITS.
	DATA (LENTRILICALILLE 12) LATIS 22 1 GNS/CH'1'003 '1
20.	C ENTER INTERNAL UNITS.
22.	UNITS(3) = 6AS/CM*
75.	C IF UNICDE=9, THEN SET CODE TO STANDARD UNITS.
27.	IF (UNICDELEGIA) UNICPE40
29.	SET CONVERSION FACTORS:
36	DATA (FACTORILLIBLE) 11:003.7.749223047
33.	C INITIALIZE 'UNITS' TO ERROR MESSAGE IN CASE CODE NOT FOUND. UNITS(1)=:UNITS' .
19.	C ODE 15 IN TABLE PERFORM CONVERSION. ALSO, ENTER UNITS ALPHA
42.	IFIICODE.NE.ENTRY(1,11) GO TO 2
::	IF (UNICDE, GE - UT VALUE - VA
46.	
49.	C AT THIS POINT, CONVERSION IS COMPLETE.
50.	RETURN
52.	C ELSE, CHECK REST OF TABLE.
	2 CONTINUE

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		1.378											
	UNITS ERROR! IN .UNITS	NOT IN DENSITY TABLE.!)											
		1 TON 61											
	FOUND, RETURN	ONUNIT CODE											
	IF COUE NOT FOUND, RETURN BITH	PRINT 131, 1CODE 131 FORMATTI ERRONUNIT CODE13." RETURN ENO			*								3
	o o												3
	98					A-3	6						

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SUBROTINE DSKRITINIS, ADR. 1 18 - 15 - 24 CALL MANNIGATINE, 19, ADR. 1 CALL MANNIGATINE, ADR. 1 CALL MANNIGATINE, AND MANNIGATION, AND MANNIGATINE, AND MANNIGATINE, AND MANNIGATINE, AND MANNIGATION, AND MAN		Company designation of a separate content of the co										
	SUBRGUTINE DEKRITTIN, 15, AUR,	1ADR(13,11)	RAN(10.1.14, ADR.L.)	GT. O) RETURN	1,10) IN.15,L	מייי בשימא זא מאניון יייון מייי						

DF 08 . 5 %	h.EHERGYENENGY
1.	SUBROUTINE ENERGY (YALUE, UNICOE, UNITS)
	TABLE OF ENERGY MEASURE CONVERSION FACTORS.
	INTEGER ENTRY (3.51. UNITS (41. UNITOR
	FACTORS ARE DOUBLE PRECISION.
	DOUBLE PRECISION FACTORISI
	PUT UNIT CODES THIQ ENTRY.
	OATA (ENTRY(1.11.11.121.62.63.88.89/
	PUT IN ALPHA UNITS.
	OATA ((ENIBILIZAL) - 1.52/15895
23. 6	EMTER INTERNAL UNITS.
23.	UNITSIALEIKSH ME:
	IF UNICOE+G. THEN SET CODE TO STANDARD UNITS.
	IF (UNICDE.EG.D) UNICDE88
	SET CONVERSION FACTORS.
32.	DATA (FACTOR(1), [=1,5)/1.01970-8,.1019700,.138255500,100,107.500/
34.	INITIALIZE "UHITS" TO ERROR MESSAGE IN CASE CODE NOT FOUND.
34.	UNITS(1) - UNITS . UNITS(2) - ERROR .
39. C	IF CODE IS IN TABLE, PERFORM CONVERSION. ALSO, ENTER UNITS ALPHA
	CUDE INTO 'UNITS'
	ICODE = IABS (UNICDE)
	16 (1CODE.NE.ENTRY(1,1)) GO TO 2
16.	IF UNICOE.GE.O) VALUE VALUE FACTOR(I)
47.	UNITS(1) #ENTRY(2,1) UNITS(2) #ENTRY(3,1)
50. 0	AT THIS POINT, CONVERSION IS COMPLETE.
52. 53. C	NE TURN
54.	ELSE, CHECK REST OF TABLE.
the state of the state of the state of the state of	

IF CODE NOT FOUND, RETURN WITH "UNITS ERROR" IN "UNITS". PRINT 101,1CODE FORMATI'S ERROR--DRIT CUDE',13," NOT IN ENERGY TABLE'') RETURN END 2 CONTINUE A-41

4 + 4 + 4	
	INPLICIT INTEGER (4-2)
. 0	
	CIRCASION ICONT. SCI. ITAKI LOLISON SCI. ICONT. SCI. SCI. SCI. SCI. SCI. SCI. SCI. SCI
	PRODUCT OF THE PRODUC
	Section 20 and 2
	-
::	, ,
:	DIMENSION STATUS(2)
15.	
	CHECK FOR CONSTANTS
18.	IF INCON . EG. 01 GO TO 50
.61	3
20.	DO 40 1-1, NCON
21.	i
22.	IF (ICONI), 1) . LT. 1011 60 TO 7
23.	1000 . IABS(100N(1,1) -
24.	
	1
.07	יות היות היות היות היות היות היות היות ה
28.	1700 - 171 - 171
29.	
30.	
31.	7 #RITE (6,4) ICON(1,1)
32.	
13.	-
	I TO FLOAT TO STATE OF THE PARTY OF THE PART
	1
17.	
38.	C CHECK PARAMETERS
39.	
40.	50 IF (NPAR .Eg. 01 GO TO 70
42.	DO 65 1-1,NPAR
43.	
***	IF (IPAR(2,1) .LT. 101) 60 TO 57
45.	
. 9	3
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
. 67	•
50.	
. 19	
-	1F (100p .Lt. 35) 60 TO 6U
53.	23
. 45	KETOKK 6

N.ENSTAT .. ENSTAT

1'1735

1500 - IABSTICOD -381 15 (1500 -LT. 351 60 TO 80 17 MRITE 16.9) 19AKIJILI RETURN 0 83 FLDTICOD, 1, STATUSTISUB) - 1 90 CONTINUE END

IF (CAFLAT -LT. EAFLAT) EAFLAT 4 CAFLAT

- 08 (EASTAT(11), CASTAT - 04 (EASTAT(12), CASTAT - 67 . EE LAT - 68 . TO E LON - 68 . TO									
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	EASTAT(1)	IF (CEPLAT GT: EELLAT) EELLAT OF (CEPLAT GT: EEFLAT) EEFLAT OF (CEPLAT GEFLAT) EEFLAT OF (CEPLAT GEFLAT GEF	103 EFLON - EASTICETLON EEFLON) EFFLON - MESTICEFLON EEFLON) 110 IF (CEIDAT -LT. EEIDAT) EEIDAT -	EESTATILL ORIEESTATILLESTATI EESTATILL ORIEESTATILLESTATI EESTATILL ORIEESTATILLICESTATI REPACK EXPERIMENT	CALL PCKEXP (BFRI,N)	MRITE EXPERIMENT RECOR	DONE I RETURN END		

 2) = SEA UN* 3) = OEMBAT* 4) = ER ACO*	D(6) - DATA B* C(2) - 'ANK * D(8) - 32674 D(16) - 0 D(11) - 0 D(12) - 0	TRAN (1	IF (LSTAT - GT - 01 STOP MRITE (4.10! LSTAT FORMAT (* EMROR *,15) STOP	

•	SUBROUTINE INTENSIVALUE, UNICOE, UNITS)
: 4	C TABLE OF INTENSITY LEVEL CONVERSION FACTORS.
	INTEGER ENTRY 13131 LUNI (514) LUNI CDE
::	FACTORS ARE DOUBLE PRECISION.
	DOUBLE PRECISION FACTORISS
5 -	C PUT UNIT CODES INTO ENTRY.
: :	DATA (ENTRY(1,11,101,101,101,101,101,101,101,101,10
: 3	PUT IN ALPHA UNITS.
20.	C ENTER INTERNAL UNITS.
22:	UNITS(3)=:#ATTS/! UNITS(4)=:#ees .
25.	C IF UNICOEEG, THEN SET CODE TO STANDARD UNITS.
27.	IF CUNICOE. EG. 01 UNICOE 74
	C SET CONVERSION FACTORS.
-48	DATA (FACTOR(11)11=1.3)/100.1.004.1.004/
1	INITIALIZE 'UNITS' TO ERROR MESSAGE IN CASE CODE NOT FOUND.
15.	UNITS(1)=:UNITS . UNITS(2)=:ERROR *
26.	C IF CODE IS IN TABLE, PERFORM CONVERSION. ALSO, ENTER UNITS ALPHA C CODE INTO 'UNITS'.
	ICODE * IABS (UNICDE)
42.	00 2 1=1,3
	IF (UNICDE.GE.O) VALUE FACTOR(1)
46.	IF (UNICDE.LT.O) VALUE VALUE FACTOR(!) UNITS(!)=ENTRY(2,1)
47.	
 e .	C AT THIS POINT, CONVERSION IS COMPLETE.
50.	RETURN
52.	C ELSE. CHECK REST OF TABLE.

SS. C PRINT 101,1COE 101 FORMATIC ERRON

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	SUBROUTINE LINEANIVALUE, UNICDE, UNITS)
;;;	TABLE OF LINEAR MEASURE CONVERSION FACTORS.
	INTEGER ENTRY (3, 12), UNITS (4), UNICOE
	FACTURS ARE DOUBLE PRECISION.
	DOUBLE PRECISION FACTOR(12)
	PUT UNIT CODES INTO ENTRY.
	DATA (ENTRY 11.11). 1-11.12.21.31.41.51.01.71.81.91.10.11.11.21.86/
	PUT IN ALPHA UNITS.
	DATA ((ENTRY(1, 1) (1=2, 3), J=1, 12) / MILLIM', 'ETERS ',
. 6.	
20.	., .YARDS ',
21.	STATE ", "MILES ", "FATHOM", S
-	. S. T. NOISIN.
25.	ENIER INTERNAL UNITS.
27.	UNITS(3) - 'HETERS'
2 - 5	IF UNICOE . O. THEN SET CODE TO STANDARD UNITS.
32.	IF (UNICDE, E4.0) UNICOE4
***	SET CONVERSION FACTORS.
	DATA (FACTOR(I),1-1,12)/. GD10Q010Q.10Q.10Q.3,2.540Q.50-2, .30463Q.60Q91440192;70G.9.1440192;70Z., . 1.852D3:1.60935D3:1.8288Q360Q.1.00-6/7
40.	IF CODE IS IN TABLE, PENFORM CONVERSION. ALSO, ENTER UNITS ALPHA CODE INTO 'UNITS'.
13.	ICODE - I ABSTUNICOE)
	IF (LCODE.NE.RNTRY(I,I)) GO TO 4
18.	DO 1 Jel 2
. 6	UNITS(J) = ENTRY(J+1,1)
	I CONTINUE
52. 6	AT THIS POINT. CONVERSION IS COMPLETE.
54.	KETURN

Ą-51		64. PRINT 101 ICODE 65. 101 FORMATI'S ERHORUNIT CODE', 13.º NOT IN LINEAR TABLE.') 64. 67. END	5	63. C IF CODE HOT FOUND, RETURN AITH "UNITS ERROR" IN "UNITS".			
------	--	------------------------------------------------------------------------------------------------	---	----------------------------------------------------------------	--	--	--

	SUBROUTINE LAGINE LYALUE, UNITS)
	TABLE OF LNGTHE HEASURE CONVENSION FACTORS.
	INTEGER ENTRY (3.2), UNITEGE
	FACTORS ARE DOUBLE PRECISION.
	DOUBLE PRECISION FACTORIZE
	PUT UNIT CODES INTO ENTRY.
	DATA (ENTRY(1,1),1=1,2)/26,27/
	PUT IN ALPHA UNITS.
	DATA ((ENIMICILALIE 1312-1121/-HONTHS:1.
	ENTER INTERNAL UNITS.
23:	UNITS(3)='HU
25. 6	IF UNICHE-O, THEN SET CODE TO STANDARD UNITS.
	IF CUNICOE, E4.0) UNICOE 26
29. 62	SET CONVERSION FACTORS.
	DATA (FACTOR(1), 1-1,21/100,1200/
3.5	IF CODE IS IN TABLE, PERFORM CONVERSION. ALSO, ENTER UNITS ALPHA
38.	IFIICODE.NE.ENTRYII, 111 GO TO 2
40.	IF (UNICOE : GE : 0) VALUE * VALUE * FACTOR(!) IF (UNICOE : LT : 0) VALUE * VALUE / FACTOR(!)
41.	DO 1 Jel 2 UNITS(Jet ITRY(Jel I)
	CONTINUE
. .	AT THIS POINT, CONYERSION IS COMPLETE,
46.	
	ELSE, CHECK REST OF TABLE.
50. 0	2 CONTINUE
5	

UNITS(1) -- UNITS .

UNITS(2) -- ERROR .

PRINT 101,1CODE

101 FORMAT(1 ERROR--UNIT CODE ., 13." NOT IN LONG TIME TABLE.")

END

END • A-53

	GFA	OCEU. NOSTA.			JOAT, EAFLAY, EAFLON,	AT, EFFLON, EFF DAT.	, CAFLAT, CAFLON,	ATICEFLONICETUAT. ARDS.NGTES(14,132).		SAFLATSAFLON	1616	1 1 3 2 1 1 3 2 1 1 3 2 1 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3	* NFDAY . KFYA . KFTIM .	R, SKCTYP, RCRTYP,	10. Set 11.	PH, UPHUNT, BT MSLP.	0 0		The second secon	VAR. VAR(3,301,	0,501,0ATA(30000)	1, 1Eq. (3000)		
HAIN PRUGRAM FOR BUILDING NAVDAB DATA BASE	3/26/74	COMMONACE EN LINES & SOUTHINGS OF SOUTHINGS	LSTADC.L CT2(28)	Equivalence (10(1), SECT2(1))	COMMON JEAPHNIJEAND, PNATE, PCRULEAILAT, EAILON, EAIDAT, EAFLAN, EAFLON,	eastatia), EESTATIA), EESTATIA), EEFLAT, EEFLON, EEFDAT,	COMMON /CRUISE/CRUNO.PNXTC, CAILAT, CAILON, CAIDAT, CAFLAT, CAFLON,	CASTAT(2), CESTAT(2), PACS, PENS, NCARDS, NOTES (14, 132).	CAFLG	COMMON JASTATA/SAND.SANBUN.SAFLAT.SAILON.SAFDAT.	1	18.4804		* RFZON, NAVCOD, DTASRC, SYSRCR, SYSRCR, SKCTYP, RCRITP.	CENTRAL PROCESS OF STREET CONTRACTOR OF STREET	SHTUNT, SALPRD, SPOUNT, MEATHR, BOTDPH, UPHUNT, BINSLP.	BATHY, INFO(9), RSTAT(2), RUNNO	SWLHT . SWLPRD . WEATH	The state of the s	COMMON /CPY /NCON, CON(4, 30), NPAK, PAR(30,30), NVAR, TVAR(3,30),		11 . 10E . P) NO.	 REAL CON, PAR, DATA, VALANG	

1 .

	FORMATION, ERROR—— TRIING TO ENTER SAME EXPERIMENT NU 215) STOP CHECK FOR NEW OF CRUISES & O If INNOCRU . GI. D. GO TO 49 MRITE ERROR FORMATION, ERROR—— NUMBER OF CRUISES INVALID 15) STOP NOCRU — NUOCRU LEXP — IEXPN
3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CHECK FOR MES & OF CRUISES < Q L ASTA DJ GO TO 49 TRITE ERROR 1. ERROR NUMBER OF CRUISES INVALID.", 15) NOCRU
	CHECK FOR MES g OF CRUISES < 0 U.SII. D1 G0 f0 49 ARITE ESROR 1 ERROR Number of Cruises invalio. 1151 ADGRU APN
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ST. D1 60 TO 49 TE ERROR NNOCRU EPROR NUMBER OF
S	ST. D. GO TO 49 TE ERROR RNOCRU EPROR NUMBER OF
	TE ERROR NOCRU ERROR NUMBER OF
	TE EBROR MNOCRU ERROR NUMBER OF
	TE ERROR NNOCRU ERROR NUMBER OF
30 F F 3 5 5 5 5 5 5 5 5 5	NN OCEN.
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143. FLD (18.	. FLUI
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	CHECK STATION COUNT FOR ZENO
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173.	אוו ב נאאטא
173.	S7 FORMATI. EXENDED CONTINUE ENCOUNTERED NOSTA NE D / . 311.0 / .
174.	. 14.1346.42)
175.	ST0P
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179.	IF LIERN SOLEKPIST
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191	C SRITE ERROR
182.	
193.	
	63 FORMATTO ERRORING NO. NOT SAME 110./.IR.13A6.AZ.
. 65.	4010
87	O TITO NATURE OF THE OF
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189.	70 IF INNOSTA .GT. D) GO TO 75
190.	
	C MRITE ERROR .
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195.	1
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197.	75 NOSTA - NNOSTA
199.	3
200.	DEAD IN ALL MOTE CARDA
201.	
203.	00 90 I.I.NCARDS
203.	READ (9,85) [NOTESIJ,11,04], [4)
204.	1346,42)
205.	
204.	1117 (1117)
200.	יארו ראסואי
209.	CALL PCKCRUIDATA,NSEC)
210.	
211.	CALL DSKRITINXTSEC.NSEC.OATA)
212.	9.6
213.	AS TORBALL (* NEE CRUISE BALLERS.)
215.	1 - F 351110 X 2517)
216.	
217.	1F ILSTADC .NE. 2) 60 TO 110
218.	
219.	FLD(18,18,SECADR) - PLD(0,18,LSIADR)
223.	-
323	CALL DESCRIBE MEET ONTAL
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224.	LIPDATE DOWN PIR.

220.	FIGURE OF THE STATE OF THE STAT
228.	
229.	C ARITE II BACK
233.	235 0442337 110730
232.	CALL USERII ISECAURI DELAURING
233.	FLD(2236145TADC) - FLD(Q236,0ATA(161))
234.	O A O O O O O O O O
236.	
237.	D • VOVIST
238.	- STADE -
240.	NATSEC - NATSEC + NAEC
241.	
242.	C GO BACK & READ MEXT CARD
293.	3
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246.	
247.	110 FLOUIS IN SECADE! . FLOU
248.	FLD(18,18,MSEC)
249.	
250.	CALL DSKREDISECADR, MSEC, DATA)
25.7	C DOATE MEST PER.
253.	
254.	FLD! 0.18,0ATA(3)1 . FLD
255.	FLD(18,10,0ATA(3)) . FLD(
256.	S BITE IT ALCE
9 4 6	
259.	CALL DSKRIT (SECADR, MSEC. DATA)
.092	
261.	C UPDATE LAST CHUISE AUGHESS & SET HERT AVAIL. ADDRESS
262.	Contract of the Contract of th
244	
265.	NATSEC - NATSEC + NSEC
266.	
267.	C GO BACK & READ NEXT CARD
268.	
	2
271.	C END OF PROCESSING FOR NE, NC & NT CARD TYPES
272.	
273.	10000
275.	CHECK FOR ACOUSTIC A
276.	130 IF (CROTYP -NE. 'A1') GO TO 176
277.	
278.	OSAL NIB SILESION SOCIONOS
280.	
281.	CHECK NOSIA.
	TIEST WITH

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287.	LARITE ENROR
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	Account of the Control of the Contro
289.	1346.421
293.	STOP
291.	
. 767	CHECK FOR SEG '10'
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200	AL AN 1.01 MS. MICH AL OLI
296.	C WAITE EARDR
297.	
298.	TARILLE (4-145) (CARINITAL OF TARILLE (4-145) (CARINITAL OF TARILLE OF TARILL
103.	STOP
301.	
302.	C INCREMENT B OF RUNS COUNTER
303.	
364.	A STORY . INCOME . I
364.	DECODE DATA
307.	Tage Integral
	חברחום
313.	* NFZON, MAKOU, DIASRC, SYSKCK, SKSKCK, SKCK, SK
:::	RCATY
316.	
314.	C EXAMINE TIME FIELD
315.	
316.	
318.	CALL MOVEM (TIMEST)
214.	
320.	IF ITIMIST ONE. BLMK GO TO 150
321.	•
323.	HOLES DIESE
324.	
325.	I ERROR TIME
326.	STOP
328.	CHECK FOR 18 INDICATOR
329.	
130.	150 RITIN # 4095
331.	1F (TIM
332.	TILLE LASERIA FOR STUDIES
334.	15.2 FORNAT (14.)
135.	
336.	C DO OTHER TIME FIELD
337.	
339.	CALL HOUINT (CARDIN, SB.4)

111	
342.	IF (TINTSI .NE. BLNK) GO TO 160
344.	C DALIE ERNOR
343.	
347.	STOP
348.	
350.	
351.	160 RETIR = 4395
352.	IF (THIST -EQ. BOL) GO TO LEZ
354.	DECODE (152,TIMEST) NFTIM
355.	
357.	C READ A CARD & PROCESS 20,30,40,50 TYPES
358.	
359.	3
	0 2007
63.	CALL COPANA (CROTYP, SEG, CARDIN)
364.	
365.	3
366.	
368.	CALL NTRA!
369.	CALL WIRAN (11,22)
::	13141
372.	C WRITE ERROR
373.	
75.	LES FORMAT (* FORDR LRITE TO 11'. LIO)
376.	ST0P
277.	
	NEXT COMMON CPV.
380.	170 C
381.	CALL NTRAN (11122)
82.	IF (LSTAT .GT. 0) GO TO 178
384.	
. 58	3
387.	175 FORMAT (* ERROR **ACP. #RITE TO 11.*, 110)
	\$10p
389.	
391.	C MRITE DATA DUT
392.	178 CALL NTRA!
393.	CALL NTRAN (11/22)
105	

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199. INI FORMAT I' EMAJR DATA MRITE TO 11., 21101	401. C GO BACK & READ MEXT CARD	179 60 10 27	3	406. C END OF PROCESSING FOR ACOUSTIC RUNS	5			, ,	3		, ,	, ,	5		413. 176 CALL NTRAN (11.10)	3		SAIFLG	SAIDAT -	SAITIM	SAFLAT .	420. SAFLON - 179600	SAFDAT .	422. SAFTIM # -4095	SASTATOL	SASTAT(2)	425. C LSTITH = D INIT LAST LENGTH FOR DATA POINTERS			107PTR . 11	00 230	3)	CAL	CALL NTRAN (11,22)	-	J	1	177			180	CALL NTRAN (11,22)		•	WRITE (6,182) LSTAT	182		ATAG. ATAGN C. 111 MAGTA	500		-
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456. (** 172 FORMAT (** EMRON	
172 FORM 5 FORM 6 C	
172 FORM 510P 6	T NOAT
210P	ENRON DATA MEAD FROM 11. 2116)
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469. CALL ACSTAT (RSTAT)	T (RSTAT)
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488. C	
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145	ORISASTATI
491. SASTATIZE	- OR (5A51AT(2), RS1AT(2))
492. C	
493. CALL MAIBIN	7.
J	
CALL	ACHPRS (STABFR, 10TPTR, LNTH)
496. C	
	CHECK SUBSCRIPT OVERFLOW
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	IF (107FIR -LT: 3300) GO TO 197
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513.	DECODE
	232 FORMAN (19,12)
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. 919	CALL ASCHPS (STABFR,3)
517.	3
519.	101PIN =101PIN =1
517.	NSEC .
523.	1
521.	FLD(18,10,STABFR(1)) = NSEC
522.	3
523.	15787 • 11
524.	SPN # NSEC + NXTSEC
525.	
526.	
527.	ISTRT = FLO(18,18,57A8FR(15TRT))
528.	
524.	
533.	CALL DSKRIT (NXTSEC. STABFRIII)
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512.	252 FORMAL ALCOHOTIC STATION APITTENCE
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543.	
544.	FL0(18,18,51A8FR(16)1 = FLD(18,10,NSEC)
545.	
240.	FRITE IT BACK
247.	,
548.	CALL DSKRIT (SECADRIMSEC, STABFR)
549.	PRINT 255
550.	255 FORMAT (" LINK DOWN FROM CRUISE")
. 199	
552.	LSTADA = STABFR(16)
553.	
554.	
555.	60 T0 296
556.	
557.	280 FLD[18,18.5ECADR] . FLD
559.	FLD(18,18, MSEC)
559.	
560.	CALL DERED (SECADE MSEC.STABER)
561.	3
562.	FLD(0.18.5TABFR(9)) . F
541	
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262.	TO SALLE STATES OF THE STATES
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219 MAISEC - MASEC - MASEC CONTINUE ON TO MRITE OUT NUM DATA CALL MEAN 111.101 CALL MEAN 111.201 SET MEAN 111.201 CALL MEAN 111.201 SET MEAN AVAILABLE ADDRESS MATSEC + MASEC + MASEC CALL MEAN AVAILABLE ADDRESS MATSEC + MASEC + MASEC CALL MEAN AVAILABLE ADDRESS MATSEC + MASEC + MASEC CALL MEAN AVAILABLE ADDRESS MATSEC + MASEC + MASEC + MASEC CALL MEAN AVAILABLE ADDRESS MATSEC + MASEC + MASEC + MASEC CALL MEAN AVAILABLE ADDRESS MATSEC + MASEC + MAS	571.	LSTADA
2.70 MAISÉ. * MAISÉ.	572.	
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DO 100 100 100 MEAD 11 4 WRITE DAIA ONLY TO DISK DO 310 101.MRUMS READ IN DATA CALL MEAN 111.2.ICCEUM.PORA.LSTAT) FEDIOLO	580.	CALL NTRAN
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CALL WTRAN (11.2.1CECPLYMEONA, 151A1) CALL WTRAN (11.2.1CECPLYMEONA, 151A1) CALL WTRAN (11.2.2.1CECPLYMEONA, 151A1) If (1.57A1 .GT .GT .G .GO .TO .GO .TO .GO .TO .GO .TO .TO .TO .TO .TO .TO .TO .TO .TO .T	585.	
CALL MEAN (11,2,LCRUM.PPRA.LSIAT) CALL MEAN (11,2,LCRUM.PPRA.LSIAT) CALL MEAN (11,2,2) CALL MEAN (11,2,2) CALL MEAN (11,2,2) STOP IF (LSTAT -GT- 0) GO TO 300 IF (LSTAT -GT- 0) GO TO 300 MATTE (a,295) LSTAT STOP CONPUTE WUMBER OF SECTORS FOR JUST DATA110) STOP CONPUTE WUMBER OF SECTORS FOR JUST DATA110) STOP CONPUTE WUMBER OF SECTORS FOR JUST DATA110) STOP CONPUTE WAS ACCUSATED AND ACCUSATED BATA110) CONTINUE CALL DS.RIT (MATSEC.MSC.VALMEG.2,30,501) SET MEXT AVAILABLE ADDRESS MATSEC = MSTEC + MSEC CALL DS.RIT (MATSEC.MSC.VALMEG.2,30,501) CONTINUE C ** THIS ENDS THE ACOUSTIC PROCESSING FOR ONE STATION **	586.	READ IN
CALL MEAN 111.2 LCCPMONIS AT 1 (1.2.1) CALL MEAN 111.2 AT 1.2.1 CALL MEAN 111.2 AT 1.2.2 STOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP STOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP STOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP STOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP STOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP STOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP STOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP STOP CONDUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SHOULD AGREE #/ PREV. LOOP CONPUTE WUNDER OF SECTORS FOR JUST DATA == SECTORS FOR JUST D	587	district of the state of the st
CALL MIRAN		NINA NINA NINA NINA NINA NINA NINA NINA
	590.	NTRAN(11.22)
	591.	NIRAN III.Z.NOATA.D
	592.	NTRAN (11,22)
RRITE ERROR 295 FORMAT (1 ERYOR READING CPY ON RUN ACQUSTIC DATA', 110) STOP COMPUTE NUMBER OF SECTORS FOR JUST DATA SHOULD AGREE W/ PREV. LOOP STOP NOATA! - NOATA *! COMPUTE NUMBER OF SECTORS FOR JUST DATA SHOULD AGREE W/ PREV. LOOP STOP NOATA! - NOATA *! COMPUTE NUMBER OF SECTORS FOR JUST DATA SHOULD AGREE W/ PREV. LOOP SET NEXT SHORTANG (2, 30, 50) - NEC CALL DSKRIT (NATSEC, NAEC, 130, 50) CALL DSKRIT (NATSEC, NAEC, NAEC, 130, 50) CALL DSKRIT (NATSEC, NAEC, 130, 50) CALL DSKRIT (NAEC, 130, 50) CALL DS	593.	
ARTITE (4,295) LSTAT 295 FORMAT (1 ERROR READING CPY ON RUN ACQUSTIC DATA',110) STOP C COMPUTE NUMBER OF SECTORS FOR JUST DATA SHOULD AGREE SOD NDATAL NDATAL) FLD[0,18,44,6Ng[2,30,50]) S FLD[0,18,44,6Ng[2,30,50]) S FLD[0,18,44,6Ng[2,30,50]) S FLD[0,18,44,6Ng[2,30,50]) NSEC C CALL DSKRIT (NXTSEC,NSEC,VALRNG'2,30,50]) SET NEXT AVAILABLE ADDRESS C A* THIS ENDS THE ACOUSTIC PROCESSING FOR ONE STATION **	595.	יו וראוי הוא החוים
295 FORMAT (* ERROR READING CRY ON RUN ACQUSTIC DATA*,1110) STOP C COMPUTE NUMBER OF SECTORS FOR JUST DATA SHOULD AGREE 300 NDATA! = NDATA! FLD[0]:18,4A.BNG[2,30,50]) = 5 FLD[0]:18,4A.BNG[2,30,50]) = NSEC C CALL DSKRIT (NXTSEC,NSEC,VALRNG[2,30,50]) C SET NEXT AVAILABLE ADDRESS C NXTSEC = NXTSEC + NSEC C ++ THIS ENDS THE ACOUSTIC PROCESSING FOR ONE STATION **	596.	
295 FORMAT (1: ERROR == READING CRY ON RUN ACQUISTIC DATA:,110) STOP C COMPUTE NUMBER OF SECTORS FOR JUST DATA == SHOULD AGREE SOD NDATA! = NDATA! FLD[0:18.4A.ENG[2:30:50]) = S FLD[0:18.4A.ENG[2:30:50]) = NSEC CALL DSKRIT (NXTSEC,NSEC,VALRNG[2;30:50]) SET NEXT AVAILABLE ADDRESS NXTSEC = NXTSEC + NSEC C ++ THIS ENDS THE ACOUSTIC PROCESSING FOR ONE STATION **	597.	
STOP C COMPUTE NUMBER OF SECTORS FOR JUST DATA SHOULD AGREE 300 NDATA! = NDATA! FLD[0]18,4A.BNG[2,30,50]) = 5 FLD[18,18,4A.BNG[2,30,50]) = NSEC C CALL DSKRIT (NXTSEC,NSEC,VALRNG[2,30,50]) C SET NEXT AVAILABLE ADDRESS NXTSEC = NXTSEC + NSEC C ++ THIS ENDS THE ACOUSTIC PROCESSING FOR ONE STATION ++	. 246.	FORMAT (* ERROR READI
COMPUTE NUMBER OF SECTORS FOR JUST DATA SHOULD AGREE JOD NDATA! = NDATA! NSEC = NSCRS(NDATA!) FLD[0]:18,4A.BNG[2,30,50]) = 5 FLD[18,18,4A.BNG[2,30,50]] = NSEC CALL DSKRIT (NXTSEC,NSEC,VALRNG[2,30,50]) CALL DSKRIT (NXTSEC,NSEC,VALRNG[2,30,50]) SET NEXT AVAILABLE ADDRESS CALL DSKRIT (NXTSEC,NSEC,CALRNG[2,30,50])	600.	ST0P
SOO NDATAL = NOATAL +1 NSEC = NSCTRS(NDATAL) FLD(10,18,VALBNG(2,30,50)) = 5 FLD(10,18,VALBNG(2,30,50)) = NSEC CALL DSKRIT (NXTSEC,NSEC,VALRNG(2,30,50)) C SET NEXT AVAILABLE ADDRESS C NXTSEC = NXTSEC + NSEC C ++ THIS ENDS THE ACOUSTIC PROCESSING FOR ONE STATION ++	601.	
SEC ** NSCTRS(NDATA!) **NSEC ** NSCTRS(NDATA!) **ELDID:18:VALRNG[2,30,50] CALL DSKRIT (NXTSEC,NSEC CALL DSKRIT (NXTSEC,NSEC SET NEXT AVAILABLE A NXTSEC ** NXTSEC ** NSEC **THIS ENDS THE ACOUST CC CC **THIS ENDS T	. , , ,	COMPUTE NUMBER OF SECTIONS FOR JUST DATA SHOULD AGREE
NSEC "NSCTRS(NDATA1) FLD[0,19,4ALRNG(2,30,50) FLD[18,18,4ALRNG(2,30,50) CALL DSRNIT (NXTSEC,NSEC CALL DSRNIT (NXTSEC,NSEC,CALL) CALL DSRNIT (NXTSEC,NSEC,NSEC,CALL) CALL DSRNIT (NXTSEC,NSEC,NSEC,NSEC,NSEC,NSEC,NSEC,NSEC,N		300 NDATAL - NDATA
FLDÍDIB, VALKRNGÍZ, 30, 50 FLDÍIB, IB, VALKRNGÍZ, 30, 50 CALL DSKRIT (NXTSEC, NSEC SET NEXT AVAILABLE A NXTSEC * NXTSEC * NSEC NXTSEC * NXTSEC * NSEC ON THIS ENDS THE ACOUST C C ** THIS ENDS THE ACOUST C C C C C C C C C C C C C	15.70	Neg.
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SET NEXT AVAILABLE A C NATSEC * NATSEC * NSEC S10 CONTINUE C ** THIS ENDS THE ACOUST C C C C C C C C C C C C C C C C C C C	613.	CALL DSKRIT INXTSEC, NSEC
SID CONTINUE C OF THIS ENDS THE ACOUST C C OF THIS ENDS THE ACOUST C C C C C C C C C C C C C	6110	A PINALITANA TYRU TAR
NATSEC * NATSEC * NSEC 310 CONTINUE C ** THIS ENDS THE ACOUST C C C C C C C C C C C C C		SEI NEAL AVAILABLE A
SID CONTINUE C C O•• THIS ENDS THE ACOUST C C C C C C C C C C C C C C C C C C C		NATSEC . NATSEC .
SID CONTINUE C C C C C C C C C C C C C C C C C C C	.519	J
C ** THIS ENDS THE ACOUST	616.	310
200 3 5 1 H 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		19.00
		THIS ENDS THE ACOUST
	42.3	
	421.	
	622.	2 Company of the contract of t
	623.	

626.	
627.	C SET NO. RUNS TO ZERO
629.	376 NRUNS - 0
630.	9
632.	The court of the c
633.	CALL NTRAN (11,10)
634.	
615.	PRINT 372
630.	372 FORMAT (" FINISHED MITH ACOUSTICS")
	COV THIS THE STATE OF
639.	THE TOWN THE WOLLD
643.	386 IF (CRDTYP - Eg E1") 40 TO 400
. 1 . 9	
642.	C BRITE ERROR
	WRITE IA. 1901
645.	-
. 949	STOP
647.	
	C VERIET SEQUENCE . 10.
653.	400 1F (SEG. FG. 100) 60 TO 415
451.	
652.	C #RITE ERROR
651.	WRITE (6,410) (CARDIN(1),1=1,14)
. 55	
	C INCREMENT RUN COUNTER & DECODE DATA (EXCEPT TIME)
663.	T+ SWOWN = SNOWN SIF
.199	NCON . O
662.	NDATA = 0
663.	NDATS .
. 664	1000
	REET.
447.	REGON MAYCOO OLASSEC CLAS DESCRIBE
668.	
669.	111,131
670.	
	C EXAMINE THE FIELD (THIS SECTION SAME AS ACOUSTIC'S)
673.	TIMIST - ALMK
74.	# CF . Z - C - C - C - C - C - C - C - C - C -
675.	CALL HOVCHP (TIMTST)
675.	
677.	IF (TIMISI .NE. BLNK) 40 TO 440
410.	0000 J. C.

. 799	
683.	
. 789	C CHECK FOR 'B' INDICATOR
. 985	
686.	440 RITIN - 4C95
. 189	11 11
688.	
. 689	DECODE (152,11MTST) WITH
.069	
691.	C 00 OTHER TIME FIELD
692.	
693.	460
701	
	-
697.	IF (TINTS) WE. BLNK) GO TO 480
.869	
. 669	C WRITE ERROR
763.	
701.	#RITE (6,148) (CARDINIL), 1-1,14)
762.	
703.	
704.	C CHECK FOR 181
765.	
706.	460 KFTIM # 4095
757.	IF ITIMI
7C.A.	
763.	DECODE (152,TIMTST) MFIIM
713.	
711.	
712.	C READ NEXT CARD
713.	
714.	SOU CALL CRORED (CARDIN, SEG, CRDTYP)
715,	
716.	C PROCESS 111 TYPE CARD
717.)
718.	IF (SEQ .EQ. '11') 60 TO 520'
114	
120.	SKITE ENDO
131	177.00.01
121	THE COUNTY OF SOUND TO SOUND THE SOUND SOUND THE SOUND
	יייייייייייייייייייייייייייייייייייייי
	400
163.	
	C CONTINUE TO DECOME CAND
727.	A. Thirday Sear Broady Pro
. 87/	SAL DEFICIE (SALS AND SALS) SALS SALS SALS SALS SALS SALS SAL
124.	* ANDDIK DIKUMI DIKUMI DIKUMI DIKUMI OKELONI VELHID.
733.	
731.	525 FORMAT (T16,2(F3,0,213), 1x,F3.0,213,F4,0,213,Zx,
732.	. 2(F3.0,213))
733.	
734.	13
735.	
736.	15 (HIUNIT -EG. 3 .AND. AAVHT -NE. 0.) 60 TO 530
137.	(PRDINT .EG. O .AND. MAVPHD .NE. 0.1 GO TO
-	

STORY .

THE PARTY

10000

() (Table)

CONTRACTOR!

12880

740.	15 (SPOUNT : Eq. 0 .AND. SALPED .NE. 0.) 60 TO 53C
741.	10 540
742.	
743.	C SRITE ERROR
	1) MING 11 6151 (C. 10014)
745.	SJS FORMAT ("ERFOR" UNIT FIELD J. DATA FIELD NOT."./. "INAG.AZ)
147.	ST0p
746.	
143.	C CLEAR STATUS WORDS
751.	SAC MSTATILL . O
152.	HSTAT(2) .
753.	CONTRACT OF A TACK OF A TA
755.	1
756.	SAVE HEIGHT
757.	3
758.	IF (HIUNII .Eg. 0) 60 TO 550
759.	CALL STOR(102.4AVHT.HIUNIT.kHTMTD)
. 707	Viria B Carre
742.	
763.	550
764.	
765.	ACTION OF THE COLUMN TO THE CO
767.	
763.	552 IF (DIRUNI, E4.2) GO TO 555
163.	
773.	
777	C WIND VELOCITY
773.	545 JF (VELINA . Co. 6) 60 TO 1846
774.	
175.	,
776.	C SAELL MEIGHT
177.	-
. 200	CATALOG
780.	בארם פוסא נוספים ברשונים
781.	C SAFEL PERIOD
782.	
783.	SPDUNT . Eq. 01 GO T
784.	CAL
785.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	THUCKES MAVE DIRECTION FIELD
	16. 41 11.00.00 4.11.00
. 101	
101	15 TEMPORT 15 TEMPORT
102	
193.	
194.	AUS FORMAT TO EXPORT THE TOWN FIRE D REARK. P. V. IN A 13 A D. AZ
	10000

84 85 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
0000000	
000000	CALL STOR (101 .WAVDIR.1.0)
90000	94145 135
8 5 2 2	ביייין ביייין ביייין ביייין ביייין ביייין
963.	62
.+08	XVIE (1) dk3]
	CALL MOVCHR (TEMP)
655.	IF (TEMPLI) .69. 883) 60 TO 680
866.	9
867.	#KITE (6,625) (CARDIN(1),1-1,14)
	625 FORMATI' ERROR SER STATE FIELD BLANK. " 1x . 1346, AZ !
829.	4018
	(631, IEMP) SEAS
-	LUKHAI (FI.U)
812.	CALL
913.	
	PROCESS SMELL DIRECTION FIRLD
6124	10
. 916.	680 CALL MOVINTICARDIN,54,2)
917.	-
. 818	10
819.	IF (TEMP(1) .NE. 9LNK)GO TO 69U
820.	#RITE (6,685) (CARDIN(1),1=1,14)
821,	685 FORMAT 1 ERROR SWELL DIRECTION FIELD BLANK (1131) 246 AZI
822.	S10P
823.	AYO DECODE (ALLITEMP) SALOIN
824.	CALL STOR (107, SWLDIR.
425,	000 00000000000000000000000000000000000
	LUCCESS MENINER COLE TIELD
828	700 CALL MOLIUT (CARRIN 74.2)
200	The state of the s
200	16 15 15 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
832.	WILE COURT TO COLUMN THE PROPERTY OF THE PROPE
200	TOO THE TOTAL OF T
835.	TIO DECOME (411.TEMP) ACATHR
930	- CTO - TENTO
837.	
838.	C PROFES BOTTOM SLOPE FIELD
639.	
843.	72
841.	TENPILL . BLNK
842.	CALL HOUSEN
844.	IF (TEMP(1) .EQ. 884) GO TO 743
845.	10
846.	NR.15 (4.725) (CARDIN(1).191.14)
847.	725 FORMAL EHROR BOTTOM SI OPE FIELD BLANK / INA . A 2.
	5100
2	4
850.	TEND - BINK
3 -	
	CALL DOVEN TEMP

	0 . 101
913.	C MEAD NEXT CARD & CHECK END OF FILE
41.	
915.	
	TE LEL OLD ALCAROLINE
919.	FLD(0,12,5EQ) - FLD(6,12,CAPIN(1))
.616	60 10 770
453.	
921.	C SET EOF FLAG & CLEAR SEQ
426.	303
22.4	103 503
925.	,
956.	773 MPAR = Q
927.	NYAR
928.	CHECK MEM CARON FOR 30, 33, 40 TARRE
930.	. 1
931.	IF (.NOT.
932.	60 10 275
933.	
934.	C PROCESS CPV TYPE CARDS
935.	FLO(0,12,CRDTYP) = FLO(0,12,CAMDIN(1))
937.	
. 95.0	CALL COPAVA (CROTYP.SEN.CAROIN)
940.	C READ NEXT CARD & CHECK FOR EOF
941.	
942.	
943.	F (FLD10, 6, CARDIN(1)) - Eq. FLD(0, 6, 10)) GO TO 780
947.	
.8+6	175
.646	D0 778 1=1,NCON
950.	CALL CONNRT(CONIS,1:,CONII,1),CON(2,1),UNITS)
951.	
.756	-
953.	
. +56	60 10 800
	בר בת גדאה
	, ARD 606
959.	
963.	
961.	NO CONTROL OF
962.	
963.	
. 496	CALL NTRAN (111.22)

Theory

SHIP

(Salation)

9.08	RITE (6,805) LSTAT FORMAT (* ERROR ERUN ARITE TO 11",110)
UU	HEAT COMMON CPV
975. 613 CALL	NTRAN (11.1.LCCPV.NCUN,LSTAT)
11	(LSTAT .GT. 3) 60 TU #10
974. C	MRITE ERROR
5 1 8	ARITE (6,815) LSTAT FORMAT (° ERROR +- ECPY ARITE TO 11°,110)
J	
	WRITE OUT DATA
820	NTRAN (11,1, NDATA, DATA(1), LSTAT)
984.	IF (LSTAT .GE. D) GO TO 821
U U	WRITE ENROR
835	ARITE (6.825) LSTAT
7 . 166	CHECK EOF FLAG. IF NOT SET. GO PROCESS CARD JUST HEAD
97 178	(EOF .EQ. 0) 60 TO 380
	END OF PROCESSING FOR ENVIRONMENTAL RUNS
0006.	REMIND UNIT 11
	CALL NTRAM (11,10)
0009.	INIT FOR STATION SUMMARY
OII. SAILAT	AT = ~90000
DIS. SAFLAT	
	AT = 0
014.	SASTATILL . 0
021.	

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1324.	C C C C C C C C C C C C C C C C C C C
1925.	
1320.	101FIR . 11
1327.	U.O. 1263 1=1, NRUNS
1024.	
	אניים וא האויי בחוץ א אנייא
1033.	
1031.	CALL N'RAM (II.C. CON.) CONTRACTOR OF THE CONTRA
1032.	- 0
1033.	IF (LSTAT .c.T. 0) GO TO 880
1034.	
1035.	#RITE (6,877) LSTAT
1036.	877 FORMAT (" ERROR ERUN READ FROM 11", 110)
1937.	ST0P
1114.	
1033.	BBC CALL NTRAN (11.2.LCCPV.NCON., SIAT)
104:1	CALL MYDAN 111.221
1042.	
1043.	ARITE (A.882) LSTAT
1044.	BB2 FORMAT ("ERROR ECPV READ FRUM 11", 110)
1045.	\$10p
1046.	
1347.	890 CALL
1044	CALL MYONN (11 22)
1049.	
1050	
1051	
1652.	C WRITE ERROR
1053.	
1354.	WRITE 16.8921 LSTAT
1055.	T I ERR
1356.	510p
1057,	5
, 8501	C CONVERT LAT, LONG, DATE TO PHOPER FORM
1059.	The second secon
1040.	IRINS .Eq. 1511 RILAT .
1961	INFNS . E9 .
1062.	· NOTI
1063.	(RFE# .E4W.) RFLON .
1064.	. RIDAY + RIMO.103 .
1065.	KFDAY - RFDAY + RFHO-100 + RFFR-10000
1666.	
. / 00 /	CALL ENSTAT (RSIAT)
. 890	
	C OFUNE SIATION SURPRING
	IF (Plat ACT, CALLAT) SALLAT WHILE
0.10	
	INFLAI 1610 SAILAI SAILAI
	- 10
	THE CHECK! SAFLA! SAFLA!
.6.701	
.0/0	I SAIFLG .ME. C) GO 10 843
677.	SAFEG # 1
	SALLON MESTICAL MATLON
1001	The search of th

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September 1

1382.	
1383.	SAILON - FAST (BELON SAILON)
	- 46 ST (R I. ON . SAF
	. LESTINFION.SAF
1385	
	THE CALL AND A LANGE OF THE CALL AND A COLUMN TO A COL
1007	IF (BEDAY . CT. CAROAT) CARDAT
-	
	CASTATION - CONTACTOR
1045.	
	CALL MAXMIN.
-	
	CALL ROUTINE TO COMPRESS DATA INTO DUTPUT ARRAY
1096. 6	
1397.	CALL ACHPRS (STABFR, IOTPTH, LNTH)
	CHECK SUBSCRIPT OVERFLO#
1100.	
11011	IF (10TPTR .LT. 3000) GO TO 897
1102.	FRITE 16,896! TOTPTR. I.NKUNS
1163.	896 FORMATI: ERADR ENV STATION TOO BIG!!",3113)
1104.	
1105.	
1106.	•
1107.	FLD(0,18,57ABFR(J)) . F
1104.	NOATA! - HOATA + 10 & NOATA + 1 + NO. #ORDS IN INFO FILED.
110%.	TALL
1110.	IB, STABFRIJII .
	TEMPILL PLSTLT
1112. C	
	IDOO CONTINUE
-	N - PROPE
	CALL ASCHPS (STABFR, 4)
	ANCERS COLUMN
	1
1133	TIOLIGI'S TARTHING NAFE
1131	17 4 1012
	COUNTY CO
11.25	-
	A LIBERTON TO STANKE STORES OF STORES
1137	CLC
	יייייייייייייייייייייייייייייייייייייי
	JON CONTRACT
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	1053 FORMAT 105 TATTOMOS
, ,,,,,	
	IF ILSTADE . NE. C) 60 TO 1040
1135. 6	
	· FLU
17	FLO(18.18.45£C) • FLO118.18.(CSTA0C)

1139.	CALL DEKNED (SECADA, HSEC. STABEN)
1140.	UPDATE DOWN ENV. PUL
1142.	
	FLO(G.18.STABER(17)) * FLO(18,18,NXTSEC)
1145.	
1146.	C ARITE IT BACK
1147.	THE PARTY OF THE P
	•
1150.	1357 FORMAT (" LINK DOWN ENV")
1151	
1152.	LSTADE = STABFRII71
1155.	0.00 10 1090
1156.	
1157.	1389 FLOTIBILB SECADNI - FLOT OILBILSTADE)
1158.	FLD(18,18,MSEC) . FLD(1
1160.	CALL DSKRED (SECADE MSEC.STAREN)
1162.	C UPDATE PIR TO NEXT STATION
1163.	
	FLO(18,18,57ABFN(9)) - FLO(18,18,NXTSEC)
1166.	N BAC
1168.	
1169.	İ
1170.	FRINT 1083
	CORT LOWERT (LINK FROM ENV.)
1172.	C LSTADE - STAUFRIPI
1174.	
1175.	SET NEXT AVAILABLE ADDRESS
	1090 NYTOFF - NYTOFF A MEET
1178.	342.01 - 342.0
1179.	
1180.	C CONTINUE ON TO WRITE RUN DATA TO DISK
1181.	3
	CALL MIRAN 11110)
	C DO 100P TO READ 11 C. BRITE SHIP NAME DATA & VARIABLE DATA TO
1185.	2510
99	
1187.	DO 111G 1-1, NRUNS
1188.	
. 681	KAD IN DATA
761	
. 141.	CALL MAN (II. ZICKON) PORALSTATI
103	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Sept.

Pegelikh

(breezi)

State of the last

1 434.	
1253.	C WRITE ENV STATION BACK
1254.	
1255.	CALL DSKRIT (SECADR, MSEC, STABEN)
1256.	3
1257.	CALL CRUSOM (DATA,STAB'N)
1258.	PRINT 1150
1259.	1150 FORMAT IL EAST GRUSUAL!
1266.	
1261,	CALL EXPSUM (DATA.STABIR)
1262.	PRINT 1159
1263.	I SF FORMAT (PAST EXPSUM!)
1264.	
1265.	C DECREMENT STATION COUNTER BY 1
1266.	•
1267.	NOSIA = NOSIA =1
1268.	
1269.	C IF THAT HAS LAST STATION DECREMENT CRUISE COUNTER
1270.	
1271.	IF (NOSTA .NE. D. GO 10 1175
1272.	NOCRU . NOCRU -1
1273.	LSTADA . D
1274.	LSTADE . 3
1275.	3
1276.	C UPDATE HEADER 6. WRITE IT BACK
12774	3
1278.	1175 IDATE * NDATE
1279.	CALL DSKRIT (9.1.SECTZ)
1286.	
1281.	C DECREBENT NO. OF FILES PROCESSED
1282.	
1283.	HOFILP # HOFILP =1
-7 1285.	C IF NOT FINISHED, DO NEXT FILE
1297:	PRITE (6,1200)
1288.	1203 FORMAT (* *** ANOTHER STATION COMPLETED ****)
1289.	- 1
1290.	IF (NOFILP NE. 0) GO TO S
1291.	
1292.	510P
. 00-	

(begang)

Pethodic

- Shallo

1	HARMIN (HAZINUM-MININUM) COMPUTES THE MAX 6 MIN VALUES FOR EACH VARIABLE IN EACH DATA SET IN 10AIA: OF COMMON 7CPV. THE MAX MIN VALUES ARE STORED IN .VARNG: IN COMMON 7CPV. THIS PROGRAM MAS CHALKBOARD 'DEBUGGED' BY DENNIS BUNEN AND JEFF ANDEKSON ON 22 MAY 1974. GFA IMPLICIT INTEGER (A-Z) COMMON /CPV /NCOM, COMIT, 301, NPAR, PAR, 130, 301, NVAR, IVANI3, 331, NOATS, AROBS(501, NAAT, VAR, RNG. 12, 130, 501, UATR(1, 130, 130, 130, 130, 130, 130, 130, 13
COOPH PEAL PINE PINE POTA POATA	EACH DATA SET IN "DATA! OF COHMON ZCPV/" EACH DATA SET IN "DATA! OF COHMON ZCPV/" S ARE STOKED IN "VALENG." IN COHMON ZCPV/" EMSON ON 22 MAY 1974. GFA ON(",30), NPAR, PAR(30,30), NVAR, IVAR(1,33), MROAS(30), NOTA, VALENG(2,30,50), NATA(34400) IFAR(30,30), IVERNG(2,30,50), NATA(34400) ILLI) IVERNG(1,1,1), FAR(1,1), RNG T776/
C CONH C CONH C C CONH C C C C C C C C C C C C C C C C C C C	S ARE STORED IN VALRIGE IN COMMON CEPVI- ENSON ON 22 MAY 1974. GFA ON (4,30), NPAR, PAR(30,30), NVAR, IVAR(1,33), AROSS(50), NVAR, IVAR(1,33), I PAR(30,10), IVERIGE 2,30,50), DATA(3000), I CAR(1,11), (PAR(1,1), IPAR(1,1)), I LI I I VERGE (1,11), IPAR(1,1), RNG TANA
	MAS CHALKBOARD : DEBUGGED: BY DENNIS BUNEN DN(4,30), NP AR 1974. GFA ON(4,30), NP AR 130,30), NV AR 11V AR (3,33), OR (4,30), NV AR 11V AR (3,33), OR (4,30), NV AR (1,1), OR (1,1),
	EMSON ON 22 MAY 1974. GFA ON 14, 101, NPAR, PARI30, 301, NVAR, IVAR(3, 33), MROWS 5501, NUARA, VALRNG(2, 30, 501, UATA(3 udos)), IFAR(10, 301, IVLRNG(2, 30, 501, UATA(3 udos)), ICON(1, 1), ICPRNG(1, 1), IPAR(1, 1), 11, 11, 11, 11, 11, 11, 11, 11, 11, 1
	ON(4,30), WPAR, PAR(30,30), NVAR, IVAR(3,30), AROAS(50), NVAR, VALRNG(2,30,50), IPAR(30,10), IVLRNG(2,30,50), ICON(1,1), IVLRNG(2,30,50), ICON(1,1), IVLRNG(1,1), I.I), IVLRNG(1,1), IVLRNG(1,1), RNG 7776/
	ON(4,30), NPAR, PAR(30,30), NVAR, 1VAR(3,30), AROWS(50), NUARA, VALRNG(2,30,50), 1PAR(30,30), 1VLRNG(2,30,50), 1PAR(30,30), 1VLRNG(2,30,50), 1PAR(30,30), 1VLRNG(2,30,50), 1 1-1111111111111111111111111111111111
	ONIT. 30), NPAR, PARISO. 301, NVAR, 1VARIS, 301, AROUS (501, NDATA, VARIS, 301, LATA (3000) IPARISO. 301, IVERNG [2, 30, 501, UATA (3000) 1 CONIT. 111, (PARIT, 11, 1PARIT, 11) 1.11, IVERNG [1, 1, 1, 1] RNG 7776/
	######################################
	1FAR(30,301,1VLRNG(2,30,50) • ICON(1,1) 1, (FAR(1,1) 1) • I. 11 1 1 1 1 RNG(1,1,1) 1 • I. 11 1 1 1 RNG(1,1,1) 1 • I. 11 1 1 1 RNG(1,1,1) 1 • I. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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C	
C C N N N N N N N N N N N N N N N N N N	
C L = 1 C D0 30 Jel, N N = NKR# +L C D0 ZO K KK = K- AMIN = AMAX # C D0 ZO K AMAX # C D0 ZO K C D0 ZO K AMAX # C D0 ZO K C D0 ZO K AMAX # C D0 ZO K C D0 ZO K AMAX # C D0 ZO K C D0	
DO 30 JELL, N N N N N N N N N N N N N N N N N N	
N = NKO#SCI.	
N = NROUSCI N = NR	
C N = NVAR +L DO 20 K KK = K- KK = K- AMIN = AMIN = C DO 20 K	
C DO 20 K KK = K- AHIN = AHIN = C C DO 20 K	
KK # K- KK # K- AHIN # AHAX # C	
AHIN MAHAN W. C. C. DO DO IF (DATA(1))	
ANAX C ANAX DO DO IF (DATA(1)	
C DO	
1F (DATA(1)	
IF (DATA(1)	VAR
	60 10 10
	AMIN) AMIN
91	AMAX! AMAX .
-	
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THE PROPERTY OF THE PARTY OF TH	1 T T T T T T T T T T T T T T T T T T T
20	
,	
46. 30 CONTINUE	
v	
9	
END SO.	

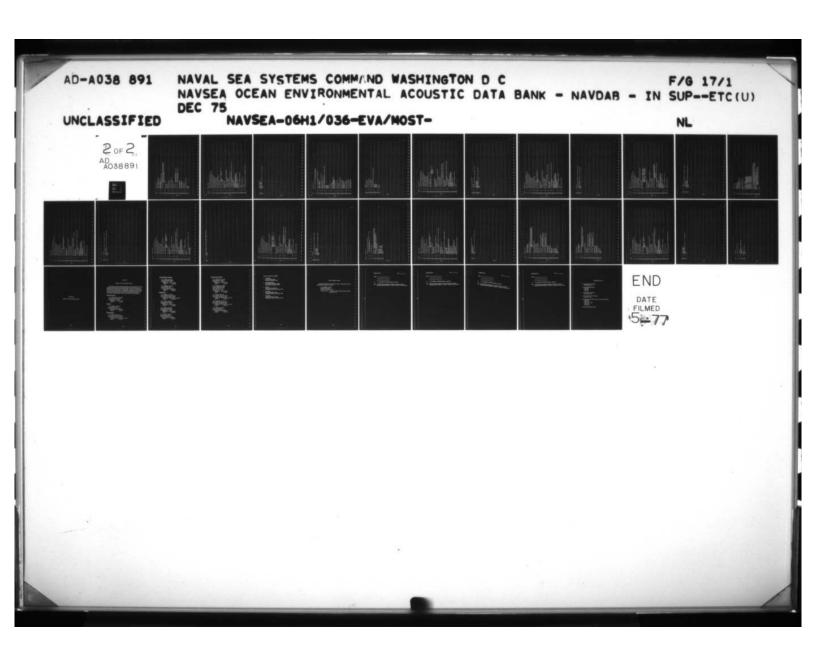
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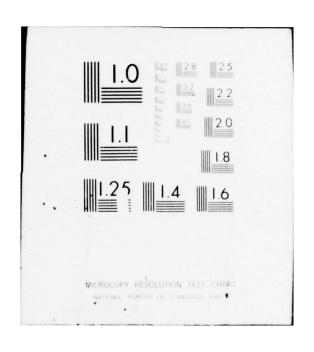
:	
٠,	
;	C HOVINT (HOVE INITIALIZE) INITIALIZES VANIABLES FOR FUTURE
;	C CALLS TO MOVEHR.
. 5	
	1
	FACH (STONEU & CHAR. PER #OND)
	- CHAKACTER
	OF
.01	C MOVEHN IS CALLED.
:	
12.	DIMENSION FNOM(1), TO(1)
13.	
. + -	151 • 157RT
15.	RETURN
. 9 -	2 The state of the
17.	
- 8)
. 61	ENTRY MOVEMR (TO)
20.	
21.	C MOVEHR (MOVE CHARACTER) COPIES *NOCHR* NUMBER OF CHARACTERS
22.	STARTING WITH
23.	
24.	EACH T
.52	OPIED. HOVCHR KEEPS
. 97	
27.	
28.)
29.	
30.	00 30 Jal. NOCHR
31.	3
32.	
33.	(4.
34.	. Eu. 01 15u8 .
35.	-
36.	B = 1CHR + 6 = 6
37.	3
38.	15081 # 3 /6 * 1
39.	190013.61
.0+	10 .53. 1181
+1.	. 64. 6) 1811 . 6
42.	. 1811 . 6 .
43.	
* + +	640
.5+	151
46.	A STATE OF THE PROPERTY OF THE
47.	30 CONTINUE
48.	
	200-32

IARGI	.Eq. 6) 17HP - 17HP-1			
FUNCTION NSCIRS (IARG)	IF (HOD (28, 1ARG) - EQ. C) INSCIRS - ITMP RETURN END			

CALL PKAREA! ", CEILAT. CEILON, CEIDAT. 0." ', CEFEAT. CEFEAT. CEFEON. CEFDAT. 0." ',

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C SET LONGITUDE SIGN BIT	. 64	7
FLD 117,1,101111111 "	51.	SET LONGITUDE SIGN BIT
	54.	FLD 117.1.10111-111

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H FUNITS ERRORT IN FUNITS!	TABLE.'1						
ITTS ERROR	IL NOT IN AREA TABLE.						
E. N. BITH TO	N , ([] , ,						
CONTINUE TO CODE NOT FOUND, RETURN WIT	UNITS(1)="UNITS" UNITS(2)="ERROR" PAINT 101,1COE 1 FORMAT (" ERRORUNIT COE" 13," END						
INUE	5 (1)						
			A-88				

-	C TABLE OF POWER MEASURE CONVERSION FACTORS.
	INTEGER ENTRY (3,2), UNITS (4), UNICOE
	C FACTORS ARE DOUBLE PRECISION.
	DOUBLE PRECISION FACTORIZE
	C PUT UNIT CODES INTO ENTRY.
	DATA (ENTRY(1.11).191.21/59.40/
	C PUT IN ALPHA UNITS.
• • •	DATA ((ENTRY(1,1)1,102,2); JP1,2)/'ER\$5/5','EC, '.
	C ENTER INTERNAL UNITS.
22.	C UNITS(3)=+PATTS/+ UNITS(4)=+
	IF IUNICDE.ES.01 UNISDE 60
	C SET CONVERSION FACTORS.
30.	C DATA (FACTOR(1),1-1,21/1.00-7,100/
	C INITIALIZE 'UNITS' TO EAROR MESSAGE IN CASE CODE NOT FOUND.
34.	UNITS (1) 2 - UNITS P
37.	
	C IF CODE IS IN TABLE, PERFORM CONVERSION. ALSO, ENTER UNITS ALPHA C CODE INTO "UNITS".
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42.	00 2 1=1,2 1F11C00E.WE.ENTWY(1,1) 60 10 2
	VALUEOVAL
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50.	C AT THIS YOUR STATES
51.	RETURN
53.	FIRE CHECK BEST OF TABLE

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TP CODE NOT FOUND, RETURN WITH TUNITS ERROR TH TUNITS. PRINT 101,1CODE FORMATI'S ERRORUNIT CODE*,13,* NOT IN POWER TABLE**) END				
<u> </u>				
25.00.00				
25.55				
		A-90	1 1	

	SUBROUTINE PRESSALVALUE, UNICOE, UNITS)
	TABLE OF PRESSN MEASURE CONVERSION FACTORS.
	INTEGER ENTRY (3.9), UMITS (4), UNICOE
	FACTORS ARE DOUBLE PRECISION.
	DOUBLE PRECISION FACTORISI
::	PUT UNIT COUES INTO ENTRY.
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14.	
17.	DATA (SENIRYSI, J), 182, 3), July 9)/
	PASCAL', S ', MICRO ', PAS
20.	7
	· NM. ME' . BCURY .
22. 6	ENTER INTERNAL UNITS.
	UNITSCOL
	IF UNICOE-0, THEN SET CODE TO STANDARD UNITS.
	IFIUNICDE.Eq.01 UNICDE*-51
32. 6	SET CONVERSION FACTORS:
7.	DATA (FACTOR(1),101,91/10
	1.03322288700/
	1F C0
40.	
41.	OD 2 11-1-0
13.	IFIICODE.ME.ENTRY(1,11) GO TO 2
	IFIUNICE.GE.G) VALUE*VALUE·FACTOR(I) IFIUNICE.LT.O) VALUE*VALUE/FACTOR(I)
	00 Jel.2
18.	1 CONTINUE
49.	AT THIS POTHT. CONVERSION IS COMPLETE.
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	RETURN
-	ELSE, CHECK REST OF TABLE.

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62. PRINT 101, ICODE 63. IUI FORMATTI ERRORUNIT CODE 113. NOT IN PRESSURE TABLE. 1	-
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			15 (LSTAT .GT. 3) 60 TO 20 17 (LSTAT .GT. 3) 60 TO 20 20 14 DEST 16 DEST	15					CALL MERANGIOLISTA
20 IM = D(8) / 10003 20 IM = D(8) / 10003 10 = (D(8) - IM = 100001 / 100 11 = (D(8) - IM = 100001 / 100 12 = (D(18) - IM = 100001 / 100 13 = (D(18) - IM = 100001 / 100 14 = (D(18) - IM = 100001 / 100 15 = (D(18) - IM = 100001 / 100 16 = (D(18) - IM = 100001 / 100 17 = (D(18) - IM = 100001 / 100 18 = (D(18) - IM = 100001 / IM IM IM IM IM IM IM IM	20 PRITE (4,10) LSTAT = 15] 510F 510F 20 IN = D(8) / 10003 • 10-100 FLD(10-18-11) = FLD(10-10-100) FLD(10-18-11) = FLD(10-10-100) FLD(10-18-11) = FLD(10-10-10-10) FLD(10-18-11) = FLD(10-10-10-10-10-10-10-10-10-10-10-10-10-1	20 IN = D(8) / 10003 20 IN = D(8) / 10003 20 IN = D(8) / 10003 10 = D(8) / 10003 17 = D(8) - IN 10003 * 10*100 17 = D(8) - IN 10003 * 10*100 17 = D(8) - IN 10003 * 10*100 17 = D(8) - IN 10003 * 10*100 17 = D(8) - IN 10003 * 10*100 17 = D(8) - IN 10003 * 10*100 18 - IN 10 - IN 10003 * 10*100 18 - IN 10 - IN 10 - IN 10 - IN 10*10 18 - IN 10 - IN 10*10 + IN 10*10 + IN 10*10*10 18 - IN 10 - IN 10*10*10*10*10*10*10*10*10*10*10*10*10*1	20 IM = D(8) / 10003 20 IM = D(8) / 10003 10 = D(8) - IM = 100001 / 100 11 = D(8) - IM = 100001 - ID = 100001 12 = D(8) - IM = 100001 - ID = 100001 13 = D(8) - IM = 100001 - ID = 100001 14 = D(8) - IM = 100001 - ID = 100001 15 = D(10) 10 10 10 10 10 10 10	10 FORMATT: ERRR LSTAT - 151 510F C 20 IM - D(8) - IM - 100001 / 100 IV - D(8) - IM - 100001 / 100 FLD 18 - B - IM - 100001 / 100 FLD 18 - B - IM - 100001 / 100 FLD 18 - B - IM - 100001 / 100 FLD 18 - B - IM - 100001 / 100 FLD 18 - B - IM - 100001 / 100 FLD 18 - B - IM - 100001 / 100 FLD 18 - B - IM - 100001 / 100 FLD 18 - B - IM - IM - IM - IM - IM - IM - IM	20 IM = D(8) / 10003 10 = (D(8) - M = 10003 / 100 10 = (D(8) - M = 10003 / 100 10 = (D(8) - M = 10003 / 100 10 = (D(8) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = 10003 / 100 10 = (D(18) - M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M = M =	C 20 IM = Diss / 10003 / 1000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 100000000	10 FORMATI LARGE LSTAT		1 1
13 FORMATI'S ERROR - LSTAT = 15] 510F 20 IH = D(8) - IN = 100001 / 100 IV = D(8) - IN = 100001 / 100 IV = D(8) - IN = 100001 / 100 FLD(18,18,12) = FLD(19,18,0) (10) FLD(18,18,12) = FLD(19,18,0) (10) FLD(18,18,12) = FLD(19,18,0) (10) FLD(18,18,18,12) = FLD(18,18,0) FLD(18,18,18,12) = FLD(18,18,18,18,18,18,18,18,18,18,18,18,18,1	13 FORMAT! ERROR LSTAT = 15 STOP	10 FORMATI FERROR - LSTAT = 151 510p 20 IN = D(8) - IN = 100000 - 100 = 100 17 = D(8) - IN = 100000 - 100 = 100 FLD(16) 8 12 = FLD(16) 9 10 10 FLD(16) 8 12 = FLD(16) 9 10 10 FLD(16) 8 12 = FLD(16) 9 10 10 FLD(16) 8 12 = FLD(16) 9 10 10 FLD(16) 9 15 11 10 10 SENANT (///) 14 74 10 10 10 FRATE (9 20 15 11 15 10 10 FRATE (9 20 15 11 15 10 10 FROM T (1 ADDRESS OF LAST ACOUSTIC STATION = 121 STOP END	10 FORMATI FRROR LSTAT = 151 510F 20 IN = Dis1 / 10003 10 = 10181 - IN + 100001 / 100 TLOIS 18 12 FLD 18 10 10 10 10 10 10 10	10 FORMATI ERROR LSTAT 151 20 IM DOBS / 10003 10 ELD(81 - IM 10003 / 100 FLD(18-18-18-18-18-18-18-18-18-18-18-18-18-1	13 FORMATI FRROR	10 FORMATI FARROR - LSTAT	20 10 10 10 10 10 10 10		WRITE (A.10) LSTAT
D = CD(81 - 100000 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 100100 T = D(81 - 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IN + 10000 10+100 18 D(8) - IN + 10000 10+100 19 E(D(18) 18 12 12 12 10 10 10 10 10	20 IN = D(8) / 10003 / 100 IV = D(8) = IN = 100001 / 100 IV = D(8) = IN = 100001 / 100 FLD(18,18,15) = FLD(10,18,10) 10101 FLD(18,18,15) = FLD(18,18,10) FLD(18,18,15) = FLD(18,18,10) FLD(18,18,15) = FLD(18,18,10) FLD(18,18,15) = FLD(18,18,10) FLD(18,18,15) FLD(18,18,15) = FLD(18,18,10) FLD(18,18,15) FLD(18,18,15) = FLD(18,18,18,10) FLD(18,18,18,10) FLD(18,18,15) = FLD(18,18,18,10) FLD(18,18,18,10) FLD(18,18,15) FLD(20 IN = D(8) / 10000 10 = 10(8) - IN = 10000 / 100 FLO(18,18,15) = FLO(0,19,1010) FLO(18,18,15) = FLO(0,19,1010) FLO(18,18,15) = FLO(0,19,10114) FLO(18,18,15) = FLO(18,10114) FLO(18,18,15) = FLO(18,18,15) FLO(18,18,15) = FLO(18,18,18,18,18,18,18,18,18,18,18,18,18,1		D = (D(s) - 10003 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	13.	13 FORMATI . ERROR LSTAT STOP
10 = (0181 - 10 + 100001 / 100 17 =	10 = (D(8) =		D	D = D D D D D D D	D = (D(8) - N = 100001 / 100				20 IM . DIR! /
T	FLO(18.18.18) = FLO(18.18.10.1) FLO(18.18.11) = FLO(18.18.10.119.1) FLO(18.18.12) = FLO(18.18.10.119.1) FLO(18.18.12) = FLO(18.18.10.119.1) FLO(18.18.12) = FLO(18.18.10.119.1) FLO(18.18.12) = FLO(18.18.10.119.1) FLO(18.18.12) = FLO(18.18.10.119.1) FLO(18.18.12) = FLO(18.18.10.119.1) SANTE(6,28.10.11.11.11.11.11.11.11.11.11.11.11.11.	T						5.	10 - (D(B) - IN - 10000) V
FLD(18,18,1L) = FLD(18,18,0)(14)) FLD(18,18,1L) = FLD(18,18,0)(14)) FLD(18,18,1L2) = FLD(18,18,0)(15)) FLD(18,18,1L2) = FLD(18,18,0)(16)) FLD(18,18,1L2) = FLD(18,18,0)(16)) SERMAT (((((((1),18,18,18))(16))(16))(16))(16)) SERMAT ((((((((((((((((((((((((((((((((((((FLD(18,18,1L) = FLD(18,18,0119) FLD(18,18,1L) = FLD(18,18,0119) FLD(18,18,1L2) = FLD(18,18,0118) FLD(18,18,1L2) = FLD(18,18,0118) FLD(18,18,1L2) = FLD(18,18,0118) FLD(18,18,1L2) = FLD(18,18,0118) STOP FLD(18,18,1L2) = FLD(18,18,0118) FLD(18,18,1L2) = FLD(18,18,18,18,18,18,18) FLD(18,18,1R2) = FLD(18,18,18,18,18,18,18) FLD(18,18,1R2) = FLD(18,18,18,18,18,18,18) STOP END FLD(18,18,1L2) = FLD(18,18,18,18,18) FLD(18,18,1R2) = FLD(18,18,18,18,18) FLD(18,18,1R2) = FLD(18,18,18,18,18) FLD(18,18,1R2) = FLD(18,18,18,18) FLD(18,18,1R2) = FLD(18,18,18) FLD(18,18,1R2) = FLD(18,18)) FLD(18,18,1R2) = FLD(18,18) FLD(18,18,1R2) = FLD(18,1R2) FLD(18,18,1R2) = FLD(18,1R2) FLD(18,18,1R2) = FLD(18,1R2) FLD(18,1R2) = FL	FLD(18,18,1L) = FLD(18,18,0119) FLD(18,18,1L) = FLD(18,18,0119) FLD(18,18,1L2) = FLD(18,18,0115) FLD(18,18,1L2) = FLD(18,18,0115) FLD(18,18,1L2) = FLD(18,18,0115) FLD(18,18,1L2) = FLD(18,18,0116) FLD(18,18,1L2) = FLD(18,18,0116) FLD(18,18,1L2) = FLD(18,18,0116) SEPARTE (4,25,1011) = FLD(18,18,0116) SEPARTE (4,25,112,113,1116) SEPARTE (4,26,112,11116) SEPARTE (4,26,112,1116) SEPARTE (4,26,112,112,1116) SEPARTE (4,26,112,1116) SEPARTE (4,26,112,1116) SEPARTE (4,26,112,1116) SEPARTE (4,26,112,1116) SEPARTE (4,26,112,112,1116) SEPARTE (4,26,112,1116) SEPARTE	FLD(18,18,1L) = FLD(18,18,0119) FLD(18,18,1L) = FLD(18,18,0119) FLD(18,18,1L2) = FLD(18,18,0119) FLD(18,18,1L2) = FLD(18,18,0119) FLD(18,18,1L2) = FLD(18,18,0119) ZS FORMAT (('/',11,12,04,1') DATE = (12,'') ZS FORMAT (('/',11,12,04,1') DATE = (12,'') ENTE(4,25, [O(1),18,1,74,1] DATE = (12,'') ZS FORMAT (('/',11,12,04,1') DATE = (12,'') ENTE(4,25, [O(1),18,1,74,1] ZS FORMAT (('/',11,12,1,74,1) ENTE(4,25, [O(1),18,1,74,1] ZS FORMAT (('//),11,12,1,74,1) ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ZS FORMAT (('//),11,12,1,74,1) ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, [O(1),18,1,74,1] ENTE(4,25, 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FLD(18,18,12) = FLD(18,18,10,18) FLD(18,18,10,18) FLD(18,18,112) = FLD(18,18,10,18) FLD(18,18,112) FLD(18,18,10,18) FLD(18,18,112) FLD(18,18,10,18) FLD(18,18,112) FLD(18,18,18) FLD(18,18,162) = FLD(0,18,10116)) FLD(18,18,162) = FLD(0,18,10116)) FLD(18,18,162) = FLD(0,18,10116)) SEFORMAT (2,2,1 (0(1),1=1,7),1M,1D,1Y,D19),1S,1L,(D(J),J=11,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	FLD(18,18,12) = FLD(18,18,1011) FLD(18,18,12) = FLD(14,18,1011) FLD(18,18,12) = FLD(14,18,1011) 25 FORMAT ((///)14,746,(**)	FLD(18,18,12) = FLD(18,18,1016) FLD(18,18,12) = FLD(18,18,1016) FLD(18,18,12) = FLD(18,18,1016) ELD(18,18,12) = FLD(18,18,1016) SERVITE(6,25) (O(1),1=1,7),1M,1D,1Y,D(9),1S,1L,(D(J),J=11,1) SERVITE (6,25) (O(1),1=1,7),1M,1D,1Y,D(9),1S,1L,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1Y,DO(1),1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1D,1M,1	FLD(18,18,12) = FLD(18,18,10,18) FLD(18,18,16.2) = FLD(18,18,10.18) FLD(18,18,16.2) = FLD(18,18,10.18) SEGMAT (1/2/2,112,18,18,18) SEGMAT (1/2/2,112,18,18) SEGMAT (1/2/2,112,18,18) SEGMAT (1/2/2,18,18) SEGMAT (1/2/2,18) SE	FLO(18,18,12.) * FLO(18,18,10.118.) FLO(18,18,12.) * FLO(18,18,10.118.) FLO(18,18,12.) * FLO(18,18,0.018.) ELO(18,18,12.) * FLO(18,18,0.018.) ELO(18,18,12.) * FLO(18,18,0.018.) ELO(18,18,12.) * FLO(18,18,0.018.) ENTE(6,25) (0(1),121,7),111,10.118. ENTE(6,25) (0(1),121,7),111,10.118. ENTE(6,25) (0(1),121,7),10.118. ENTE(6,26) [51,16,18] * ERPAINING * 15,12. ENTE(6,26) [51,16,18] * ERPAINING * 15,10. ENTE(FED(18,18,12) = FED(18,18,10) 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10 15,10	FLOTIS: 18: 123 = FLOTIS: 18: 101 FLOTIS: 18: 123 = FLOTIS: 18: 101 FLOTIS: 18: 123 FLOTIS: 18: 101 FLOTIS: 18: 123 FLOTIS: 18: 101 FLOTIS: 18: 123 FLOTIS: 18: 12: 12: 13: 13: 13: 13: 13: 13: 13: 13: 13: 13			
FLD(18,18,16.2) FLD(4,18,18,10.17,1019), IS.IL. (D(J), J=11,	FLD(18,18,16.2) FLD(4,18,18,11) FLD(18,18,16.2) FLD(4,18,18,110) FLD(19,18,11,10,19,19) SEFORAT (1/2/1,11,19,1,7),18,10,19,10,19,11,10,19,11,10,19,11,10,19,11,10,19,11,10,19,11,10,19,11,10,19,11,10,19,11,10,19,11,10,19,11,10,19,19,19,19,19,19,19,19,19,19,19,19,19,	FLOTIS: 18.16.3 FLOTIS: 18.0(16.1) FLOTIS: 18.16.3 FLOTIS: 18.0(16.1) SEFURIT LEVER REC. 1. 14.746.7 FLOTIS: 1. (DLJ).J.11. SEFURIT LEVER REC. 1. 21.0.7 FLOTIS: 1. NO. CHAINING 15.7. NO. STATIONS REHAINING 15.7. NO. STATION 12.10.7. NO. STOPESS OF LAST ENVIRONMENTAL STATION 12.11. NO. NO. STOPESS OF LAST ENVIRONMENTAL STATION 12.11. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO	FLD(18,18,16.7) FLD(18,18,16.7) ENTITE(6,2\$ (0(1),111,7),111,10,17,019),15,11,(0(1),19,11) SEFORMAT (1/2/1,11,14,17),111,10,17,019),15,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,1,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,17,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,11,10,	FLD(18,18,16.3) FLD(4,18,18,11) FLD(18,18,16.3) FLD(4,18,18,11) ZS FORMAT (1///, 14,18,17) SEMAINING # 15.11, 14,18,17 EMAINING # 15.11, 15.11, 15.11, 16.17 RRITE (4,26) SIAILINS REMAINING # 15.11 ZA FORMAT (* ADDRESS OF LAST ACOUSTIC STATION # 12.10,17 * ADDRESS OF LAST EVUIS TATION # 12.110,17 * ADDRESS OF LAST ENVIRONMENTAL STATION # 1.210,17 * ADDRESS OF LAST ENVIRONMENTAL STATION # 1.2110,17 * ADDRESS OF LAST ENVIRONMENTAL # 1.2110,17 * ADDRESS OF LAST ENVIRONMENTAL # 1.2110,17 * ADDRE	## FLD	FLOTISTES LOTE FLOTIST FLOTIS: 18:16.2		_	
FLOTIS 18, 123 = FLOTIS, 18, DOTIS) 15, 11, (D(J), J=11, 25 FORMAT (1///) 11, 14, 14, 10, 17, D(P), 15, 11, (D(J), J=11, 25 FORMAT LEVEL REC. = 1, 21 10, 1/2, 1/3, 1/3, 1/3, 1/3, 1/3, 1/3, 1/3, 1/3	FLOTIS 18, 123 - FLOTIS, 18, D01161) 25 FORMAT ('././.) 11, 14, 17, 19, 17, D19), 15, 11, (D1J), J=11, 25 FORMAT ('././.) 11, 14, 17, DATE OF LAST UPDATE "'. 12, 1/. 26 FORMAT ('. NO. STATIONS REMAINING "'. 15, 1/. 26 FORMAT ('. ADDRESS OF LAST CRUISE LEVEL RECORD "'. 2110, /. 370P 570P 570P 580	## F L L L L L L L L L	## ## ## ## ## ## ## ## ## ## ## ## ##	######################################	## ## ## ## ## ## ## ## ## ## ## ## ##	## TELO	##1TE(6, 25) (0(1), 1=1,7), 1M, 1D, 17, D(9), 15, 1L, (D(J), J=1), 12, 12, 12, 13, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 12, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 15, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	• •	
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" (21) 0,',', LAST EXP, NO. " (15) ', AUDRESS OF LAST INS REMINING " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. " (15) ', NO. 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" (15)	25 FORMAT ((///) 1.7Ab / PATE OF LAST UPDATE TO 12 /	25 FORMAT (((),),14,74,4,10,17,10,17,10,17,11,10,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,17,11,11	25 FORMAT (('.') 11.7Ag1(') DATE OF LAST UPDATE 25 FORMAT (('.') 11.7Ag1(') DATE OF LAST UPDATE 26 FORMAT (('.') 11.7Ag1(') DATE SECTOR " 103. (') ADDRESS OF 27 FORMAT ('.') 12.7Ag1(') LAST EXP. NO. " 15.7. NO. 28 FORMAT ('.') 12.7Ag1(') LAST CRUISE LEVEL RECORD "'. 2110. (') 29 STOP END 5 STOP END 6 ADDRESS OF LAST ENVIRONMENTAL STATION "'. 2110. (') 5 STOP END	25 FORMAT ((((),),),),),),),),),),),),),),),),),)	######################################	25 FORMAT (7/2/11174), PATE SECTOR W: 110/17 LADRESS OF LAST UPDATE W: 110/17 LADRESS OF LAST UPDATE W: 110/17 LADRESS OF LAST UPDATE W: 110/17 LADRESS OF LAST UPDATE W: 110/17 LADRESS OF LAST UPDATE W: 110/17 LADRESS OF LAST UPDATE W: 151/10/17 LADRESS OF LAST UPDATE W: 151/10/17 LADRESS OF LAST UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADRESS UPDATE STATION W: 121/10/17 LADR	24.	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**************************************	## FEMALINING ## 15./. NO. STATIONS REMAINING ## 15) 26 FORMAT (* ADDRESS OF LAST CRUISE LEVEL RECORD #*, 2110,/. * ADDRESS OF LAST CRUISE LEVEL RECORD #*, 2110,/. * ADDRESS OF LAST ENVIRONMENTAL STATION # 1, 2110,/. STOP END	## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	## TENTINING # 15./. NO. STATIONS REMAINING # 15) 24 FORMAT (* ADDRESS OF LAST CRUISE LEVEL RECORD # 2110,/. *, * ADDRESS OF LAST ACOUSTIC STATION # 1,2110,/. STOP END	## ## ## ## ## ## ## ## ## ## ## ## ##	## TENANTINE 15./. NO. STATIONS REMAINING = 15. 15./. NO. STATIONS REMAINING = 15. 15./. NO. STATIONS REMAINING = 15. 15./. NO. STATIONS RECORD = 1.2110./. 15./. NO. STATIONS RECORD = 1.2110./. 15./. NO. NO. NEWS SOF LAST ENVIRONMENTAL STATION = 1.2110./. 15./. NO. NO. NEWS SOF LAST ENVIRONMENTAL STATION = 1.2110./. 15./. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO	## 11 16 16 17 17 17 17 17	## 15 15 1 1 1 1 1 1 1 1		BLE SECTOR WILLIAM ANDRESS OF
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	SUBROUTINE PRSLYLIYALUE, UNICOE, UNITS)
	TABLE OF PRESSURE LEVEL MEASURE CONVERSION FACTORS.
	INTEGER ENTRY (313) LUNITS (4) LUNICOE
	FACTORS ARE DOUBLE PRECISION.
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7.	UATA LIENIRTILIJILEZIJILATILIJIV 08/21U'L'9AR
19.	
20. 6	ENTER INTERNAL UNITS.
	UNITS(1) - 08//10:
	IF UNICOE OF THEN SET CODE TO STANDARD UNITS.
	IFIUNICDE.EG.D. UNISDE71
28.	SET CONVERSION FACTORS.
25.	DATA (FACTOR(1),1=1,3)(-100,000,-26,000,000(
32.	INITIALIZE SUNITS: TO ERROR HESSAGE IN CASE CODE NOT FOUND.
	UNITS(2) - FAROR *
38.	IF CODE IS IN TABLE, PERFORM CONVERSION. ALSO, ENTER UNITS ALPHA
40.	CODE INTO CUNITS:
	ICODE = IABS (UNICOE)
	11 1 10 10 10 10 10 10 10 10 10 10 10 10
	IF UNICOE. GE. 30 VALUE - FACTOR(1)
45.	IF (UNICEE, LI.O.) VALUE-VALUE-FACTOR(I)
17.	UNITS(1) "EMINATED IN
49.	AT TAIS POINT, CONVERSION IS CUMPLETE.
-	NE LINE
53.	ELSE, CHECK REST OF TABLE.

4 7

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ITH TOHITS ERROR! THE TUNITS.	13," NOT IN PRESSURE LEVEL TABLE.")													
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ET	3											1		
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TF CODE NOT FOUND, RETURN	131 FORMATI : EMRORUNIT CODE. RETURN END													
10	E K B													
36	ē:,													
3	7 4 2 0													
F	2 2 2 2													
2 2	55.5													
						4-95							1	

C TABLE OF SHRTHE MEASURE CONVENSION FACTOR INTEGER ENTRY(13,5), UNITS(4), UNICOE C PUT UNIT CODES INTO ENTRY, C PUT UNIT CODES INTO ENTRY, C PUT UNIT CODES INTO ENTRY, C PUT UNIT CODES INTO ENTRY, C PUT UNIT CODES INTO ENTRY, C DATA (ENTRY(1,1), 1,1,1,1,2,1,2,1,22,12), 24,25/C C ENTER INTERNAL UNITS, C UNITS(1), 1,5,1/L, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	INTEGER ENTRILLIANT MEASURE CONVENSION FACTORS. FACTORS ARE DOUBLE PRECISION. DOUBLE PRECISION FACTORIS. DOTA (ENTRILLIALIZELE) JUNITS: DATA (ENTRILLIALIZELE) JUNITS: DATA (ENTRILLIALIZELE) JUNITS: DATA (ENTRILLIALIZELE) JUNITS: CHICK INTERNAL UNITS: UNITS::: IF UNICOE-0. THEN SET CODE TO STANDARD UNITS.
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	1,22,23,24,25/ 1,22,23,24,25/ 3 ',4110,15',15' 5 ',4110,15',15' 6 TO STANDARD UNITS.
	11.22.23.24.26/ 1-22.23.24.26/ 1-1.51/*HILLIS*********************************
	1,22,23,24,25/ 1-1,51/*HILLIS*** ECONDS************************************
	S ', MILLIS', ECONDS'S ', 'NINUTE', 'S ', 'DAYS ', 'S ', 'DAYS ', 'S ', 'DAYS ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S
	S ', MINUTE', ECONOS 'S ', DAYS ', 'S ', DAYS ', 'S ', DAYS ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S ', 'S
	CODE TO STANDARD UNITS.
	CODE TO STANDARD UNITS.
	CODE TO STANDARD UNITS.
	21-13
	17.00100.1.000,60.00.3.603.8.6404/
C IF CODE IS IN TABLE, PERF	PERFORM CONVERSION. ALSO, ENTER UNITS ALPHA
100	
100 2 101,6 1f(1C0DE.NE.ENTRY(1,1))	19 60 10 2
IF UNICOE, GE.O) VALUÉ "VALUE «FACTORI) IF UNICOE, LT.O) VALUE «VALUE /FACTORI)	NALUE OFACTOR())
UNITS(J)=ENTRY(J+1,1)	
1	SION IS COMPLETE.
2 CONTINUE	
C IF CODE NOT FOUND, RETURN	TURN WITH 'UNITS ERROR' IN 'UNITS'.
UNITS(1) UNITS	

LOI FOURATION EMBONUNIT CUDE. 113.º NOT IN SHORT TINE TABLE. 01				
S4. LOJ FOUNATION		A-97	1	

SUBROUTINE SPEEDS VALUE, UNITED TABLE OF SPEEDS VALUE, UNITED TABLE OF SPEEDS VALUE, UNITED TATORS ARE DOUBLE PRECISION, DOUBLE PRECISION FACTORIES PUT UNIT CODES INTO ENTRY, DATA ([ENTRY!], 1] 1 1 2 2 2 2 2 2 2 2

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		8	
INITS 5.			
MAURY IN V			
TF CODE NOT FOUND, RETURN BITH "UNITS ERROR" IN "UNITS". UNITS:11.="UNITS" UNITS:21.="ERROR" PRINT 131,1CODE FORMATI: ERRORUNIT CODE!3." NOT IN VELOCITY TABLE." END			
RETURN DIT			
TF CODE NOT FOUND, RETURNISTING ON 115121 - ERROR - PRINT 131, 1CODE FORMATI - ERROR - UNIT C			
TF CODE N UNITS(1)= UNITS(1)= UNITS(1)= PRINT(1)= PRINT(1)= PRINT(1)= RETURN			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	A-99		

STOR (CODE, VALUE, UNIT, METHOD) STOR (STORE) HOVES PARAMETERS INPUT ON THE ENLI CAND TO THE CONSTANTS AREA OF 7 (PV.) COMMON /CPV /NCON, CON(4, 30), NPAN, PAR(30, 30), NVAN, IVAN(13, 30), OTHENSION I CON(4, 36), IPAR(30, 30), NVAN, IVAN(13, 30), OTHENSION I CON(4, 36), IPAR(30, 30), IVAN(2, 30, 50), OTHENSION I CON(4, 36), IPAR(30, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON(3, 30), OTHENSION I CON			, (ut.					
- 0 . 2 . 2	SUBRUUTINE STOR (CODE, VALUE, UNIT, METHOD) STOR (STORE) HOVES PARAMETENS INPUT ON THE EM 11 CAND	TO THE CONSTANTS AREA OF ICPUT.	COMMON /CPV /MCON,COMIN,361,NPAR,PAR(30,30),NVAN,1VAR(3,	EQUIVALENCE (COMIT, 1) 1 COMIT, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL, 1) 1 PARTIL,	1.	1 1		

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-	SUBROUTINE THETUREYALUE, UNICDE, UNITS)
	TABLE OF INPIUM MEASURE CONVERSION FACTORS.
	INTEGER ENTRY(3,4), UNITS(4), UNICOE
	PUT UNIT CODES INTO ENTRY.
	DATA (ENTRY(1,1),1-1,1/35,36,97,90/
	C PUT IN ALPHA UNITS.
	DATA ((ENTRY().J), 1-2,3), J-1,41/ FAHREN', "HEIT ', 'DEG. C', "ELSIUS', "KELVIN', '
	C ENTER INTERNAL DEGREE UNITS.
	UNITS(3) OEGREE' UNITS(4) S CENT'
	C IF UNICOE.O. THEN SET COOK TO STANDARD UNITS.
-	IF (UNICDE.Eq.0) UNICOE34
	C IF CODE IS IN TABLE, PERFORM CONVERSION. ALSO, ENTER UNITS ALPNA C CODE INTO .UNITS
	ICODE=:ABSIUNICOE)
32.	
34.	C IF CODE NOT FOUND. RETURN #11H *UNITS ERROR! IN *UNITS.
	- VI MINT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T
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	RETURN 2 IF LUNICOF. GE. DI VALUE (VALUE - 32.) 05. / 0.
42.	1
	UNITSC21.EMIRYC3.11
.5.	RETURN 3 UNITS(1) FENTRY(2.1)
.7.	
. 6.	METURN 4 IF CONTOBE AE. 0) VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VALUE - VAL
20.	1
	UNITS(1).EMIRY(2,1)
53.	

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	SUBROUTINE VOLUME (YALUE, UNITS)
* 4	TABLE OF YOLUME MEASURE CONVERSION FACTORS.
	INTEGER ENTRY (314) LUNITS (4) LUNICOE
	FACTORS ARE DOUBLE PRECISION.
	DOUBLE PRECISION FACTORIA)
	C PUT UNIT CODES INTO ENTRY.
	DATA (ENTRY(1.11.101.191/17.10.19.20/
	PUT IN ALPHA UNITS.
	DATA LIENTRYLLAJIATERIATIVELATIVECHESS 's' 's
	• • • • • • • • • • • • • • • • • • •
	C ENTER INTERNAL UNITS.
: d:	UNITSIAL FREERS.
	C IF UNICOE.D. THEN SET CODE TO STANDARD UNITS.
	IF (UNICOE, EG.O) UNICOE10
	SET CONVERSION FACTORS.
	DATA' (FACTOR(11), [41,41/1.00-4,100.2.83170-2.,764600/
34.	C IF CODE IS IN TABLE, PERFORM CONVERSION. ALSO, ENTER UNITS ALPHA
	C ICODE PLANS LUMI COE !
20.	IF (ICODE, NETRY (1.1) 60 TO 2
• •	IF UNICOE.GE.O) VALUE VALUE FACTOR(1) IF UNICOE.LT.O) VALUE VALUE FACTOR(1)
12.	DO 1 JEL, 2 UNITS(J) PENTRY (J+1,1)
	1 CONTINUE
	C AT THIS POINT, CONVERSION IS COMPLETE.
	RETURN
	C ELSE, CHECK REST OF TABLE.
	2 CONTINUE
53.	IF CODE NOT FOUND. RETURN BITH "UNITS ERROR" IN "UNITS".

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. NOT IN VOLUME TABLE. "			
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		A-106	

7 4 #EST = MIN.A.B) INTEGER FUNCTION MEST (A.B.) 10 REST = B 1F (A = GT+ C) REST = A RETURN END INTEGER A,B N. WEST .. WEST . T. T. 130 **** -107

APPENDIX B

CURRENT NAVDAB STEERING GROUP

APPENDIX B

CURRENT NAVDAB STEERING GROUP

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(Envelope address: Commander, Naval Undersea Center, San Diego, California 92132)

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From:	
	-
To. I. A Smothers NAVDAR	Chairman Code 3073

Subj: NAVSEA Ocean Environmental Acoustic Data Bank (NAVDAB), SEA 06H1/036-EVA/MOST- 4 (Volume 3: Details of Creation Phase)

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MEMORANDUM	Date:
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To. I A Smothers NAVDAR	Chairman Code 2072

Subj: NAVSEA Ocean Environmental Acoustic Data Bank (NAVDAB), SEA 06H1/036-EVA/MOST- 4 (Volume 3: Details of Creation Phase)

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From:	Date:
To: L. A. Smart	

To: L. A. Smothers, NAVDAB Chairman, Code 3073

Subj: NAVSEA Ocean Environmental Acoustic Data Bank (NAVDAB),

SEA 06H1/036-EVA/MOST-4 (Volume 3: Details of Creation Phase)

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